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A PROPITIOUS TIME FOR MUNICIPAL IMPROVEMENTS OF ALL KINDS.

THE recent strong improvement in the market for municipal securities should be taken advantage of promptly by Southern communities which are contemplating the issuing of bonds for public work. A vast amount of county, city and municipal improvements of every kind is needed in the South, for which bonds must be issued. At the present time there is a better market for such securities, and coincident with this ability to get money there is a surplus of labor available, and manufacturers of machinery and equipment are in a position to fill orders to better advantage than would be possible if all business interests were active. The condition, therefore, is exceptionally favorable for the prosecution of public work.

Throughout all parts of the South and Southwest roads are to be built, new streets made and old streets improved, sewerage systems and water-works are to be constructed or enlarged, and public buildings erected. While it is desirable, and often important, that public buildings should be ornate and in keeping with the life of the community, it is especially important that they should be absolutely fireproof. Every courthouse and every city hall ought to be so well constructed as to make thoroughly safe public records of all kinds. These things are important. But the construction of the most modern sewerage systems, and of water-works to guarantee an ample supply of pure water, and the building of good roads and the paving of streets and alleys are even more important. These all take hold of the essential things—the health of the community. There is no greater economic wastefulness than that which by reason of false economy prevents municipalities from providing pure water, the most sanitary sewerage system and well-paved streets and alleys, which make possible city cleanliness. Every illness and every death brought about by failure to do these things is an economic loss due to the blundering of incompetent officials, and this without considering the sorrow and suffering brought by the illness and the deaths which better sanitary conditions would have prevented. The men in any community who, from a narrow and miserly point of view, delay the improvements of this kind, which are essential to the health of a community as well as to its progress, are responsible for sickness which other action on their part might have prevented.

Every growing town and city in the South needs to improve and keep on improving every day and every year its provisions for sanitation and health. These include all such things as water-works, sewerage systems and well-paved streets. The field is almost limitless. No wiser investment can be made

by people than the money spent, when it is honestly expended, for public works of this kind. These improvements mean material progress, they mean better conditions of living, better environment for young and old, and better health and longer lives for the people. It is especially important, therefore, that the authorities of every community in the South should study the situation in the light of present conditions when money for such work is becoming more abundant and when the labor available for it is in great supply. Moreover, the very doing of these things and the employment of labor in works of this kind would stimulate all business interests and largely help in bringing about that general prosperity for which all are looking and hoping. This is the South's day of opportunity for work of this kind. If the authorities of Southern communities are not alive to the situation, the people whose interests are at stake ought to see that they are awakened promptly.

PUBLIC SERVICE CORPORATIONS AND THE PEOPLE.

HOW often, when a public-service corporation yields to the wishes of a community, is public recognition of that fact given? This question is suggested by an expression of appreciation of the restoration by the Baltimore & Ohio Railroad Co. of an old schedule by which a west-bound train due at Shenandoah Junction at 5.53 in the evening is to be stopped, expressed in the *Virginia Free Press* of Charles Town, W. Va., as follows:

It was fully understood when the schedule was announced that the railroad company in preparation of schedules is confronted with many difficult propositions. In the first place, the distance from New York to St. Louis is about 1120 miles. The running time of No. 1 is 29 hours. In order to accomplish this task it is necessary to utilize every minute. Formerly, if a train got behind time, the officers on the train were permitted to run at any possible rate of speed in order to make up the lost time. Now, under the "Safety First" rule, there is a limit of speed to 60 miles an hour. No train can go beyond that speed. It is more essential than ever before to save the minutes. The briefest possible loss of time for a stop is five minutes, especially for heavy trains such as No. 1. Again, it must be remembered that it is difficult to start a heavy train at Shenandoah Junction, owing to the heavy grade and the curves. For these reasons, and others which might be enumerated, the railroad company has made quite a concession for the benefit of the people.

This incident indicates that the railroad company has not only gratified its patrons by meeting their wishes, but has laid the basis for closer ties and greater friendliness in explaining fully the difficulties involved in meeting those wishes. In that is the manifestation of the spirit of the times which, if maintained and expanded, will undoubtedly conduce to a better understanding of one another by corporations and the public, and, consequently, to the advantage of both. This spirit permeated a recent address before the Baltimore chapter of the American Institute of Banking by President J. M. Fitzgerald of the Western Maryland Railway Co., in which, comparing in a striking manner the progress and the policies of banks and railroads in this country, he said that the proposition that the services of the banks and the services of the railroads ought to be so rendered as to conduce in the greatest degree to the benefit of the whole people cannot successfully be contradicted, but that there is much disagreement as to the fundamental status of the banks and of the railroads, and as to the manner in which their services shall be rendered to the benefit of all, and added:

The officers of railways at the beginning of governmental regulations, and for many years as that regulation advanced, struggled against it. They have nearly all come

to think that the mistake was theirs. But when a man believes that he is being deprived of rights guaranteed to him by the law of the land he is naturally prone to resist every encroachment upon those rights. It seemed to the railways that they were being deprived of their legal rights, and they fought the fight that they believed to be just.

There is a higher authority than the law, and that is the people who make the law and at whose behest the law can be changed. If the people of this country do not believe that our institutions, as they exist and as they are administered, are most conducive to the social welfare, it is the duty of those who are familiar with those institutions and who are concerned in their administration to point out to the people where they think the people are in error, and to discuss the questions at issue with fairness. Furthermore, if it be found necessary to modify those institutions, it is the duty of those in power to be ready to aid in that adaptation of existing systems through which whatever is essentially good may be retained, while that which is outworn or undesirable may be abandoned.

For myself, I believe that the structure of the banking business in this country and the structure of the railroad business in this country are in all essential respects entirely sound; that their administration in all essential respects is conducted, as it must be conducted, to serve best the social welfare. I believe that this should be pointed out in frank discussion. If it cannot be so pointed out, it is not true.

I do not believe that more than a comparatively small fraction of the people of this country understand what business really is, what are its underlying principles, what is the mechanism based upon them, and what is the business procedure best adapted to serve the greatest good of the greatest number. There never was a time when it was so essential for business men themselves to arrive at an accurate and comprehensive understanding of these principles and this mechanism, and for them to be able to expound their nature in frank discussion with their fellow-men.

I believe that this is a duty which rests upon me as a railroad man. I believe that it is a duty which rests upon every one of you as a banker, and that, as through the coming years you attain positions of greater responsibility, your duty in this direction will become greater. Therefore, the preparation for the fulfillment of this duty is one of the gravest responsibilities that rests upon you now.

Frank discussion of disputed points is the best solvent of all problems. It is true and quite natural that many business men and many executives of corporations are so engrossed in the details of their special lines of activity that they have no opportunity to gain an insight into the activities of others, and so are without a point of vantage for considering questions that may arise from the contact of activities. Hence, come conflicts which would never be thought of if there was mutual understanding. When to that predicament there is added, as has been the case in some instances in the past, the presumption that the conduct of one's business is the business of no one else, even though a great body of the public may be affected, occasion is quickly made for violent antagonisms, to the detriment of all parties concerned. Plain statements, as by the Baltimore & Ohio Railroad management, of reasons for modifying train schedules, and acknowledgments, as by President Fitzgerald of the Western Maryland Railway, of the necessity for accurate and comprehensive understanding of fundamental principles in business, are illustrations of the frankness that will free corporations and the public from many of their drawbacks.

FOR A TEST OF THE INCOME TAX LAW.

CONGRESSMAN OSCAR W. UNDERWOOD, chairman of the ways and means committee of the House of Representatives, is reported announcing that no bill affecting the new tariff act will receive consideration by the Congress at this time. This statement, following the introduction of bills looking to amendment of the income tax law, which is section II of the tariff act, must be taken as an official response to the reasonable de-

mand for amendment of the law based upon the rapidly-growing body of public opinion that the income tax law is the crudest piece of legislation ever enacted by the Congress within the past 50 years and is reeking with injustice and wrong. The response reflects the spirit of intransigency and infallibility that dominated the framing of the income tax law, and harmonizes with the reported attitude of Congressman Cordell Hull, the putative father of the measure, expressed in such words as:

"None deny [sic] the fairness of this tax, but only object [sic] to its administrative features."

"We should remember that the bondholder is very apprehensive lest the States, counties and municipalities should thereby be enabled to reach his bonds for taxation."

"It is my opinion that the law will work satisfactorily except to those who oppose it on principle."

"The confusion will be removed as soon as the regulations of the Treasury Department are understood."

How is it possible for sanity to understand regulations that are in a flux and that harmonize with no basic principle save that of effort to make the new law produce the greatest revenue? How is it possible for sanity to understand regulations or instructions in which words having dissimilar meaning are used synonymously?

What is the use of attempting to reason with a state of mind which, after months of the widest sort of publicity of criticism, not of the principle of an income tax, but of the unfairness of the provisions of the income tax law of October 3, 1913, is unable to perceive, according to its utterances before the New York State Bar Association, where angels might have feared to tread, that there is any other objection than that to the administrative features?

Provisions of the tax, objectionable because of the grave doubt as to their constitutionality and their legality and because of the gross injustice that will be wrought by them, have been emphasized in the efforts of the Internal Revenue Bureau, with the best sort of intention, to administer them, and such efforts would be naturally hampered, even if thorough competency for the task of overcoming impossibilities existed.

However, the determination at Washington to give no heed to the thoroughly justified demand for immediate amendment of the law does not bar thousands of persons affected from bringing the matter to issue in the courts. No time should be lost in organizing this litigation. There is enduring fame and honor for some great lawyer of high standing who will volunteer for this service, the expense of which should be met by assessment upon every person joining in the action in proportion to the amount of income tax to which he may be liable, or, better still, inasmuch as such liability cannot be determined finally until the courts have given their judgment, in proportion to his gross income. The action should turn upon two main points:

The exaggeration in the administration of the income tax law of the exceedingly dangerous tendency in American Government toward lawmaking by bureaucracy.

The embodiment in the law of provisions repugnant to the Constitution of the United States and to elemental principles of law.

Study of the regulations of the Treasury Department and the accompanying forms issued in the weeks immediately following November 1 will produce, it is believed, all the material necessary for dealing with the first proposition. For the second abundant material is at hand in the provisions—

Conferring quasi-judicial power upon the Secretary of the Treasury in permitting him to determine whether or not a corporation has been formed or fraudulently availed of for the purpose of preventing the imposition of the additional tax.

Attempting to define net income without respect to the widely different classes of persons whose incomes may be liable to the tax.

Discriminating against the incomes of a special class, married persons, in a law which is itself a notable and a confessed case of class legislation.

Compelling individuals and corporations, neither officials nor bonded agents of the Government, to be collectors and holders of Government funds without compensation, and, indeed, at an expense to themselves.

Compelling a breach of existing contracts that are absolutely legal until they have been abrogated by special constitutional amendment.

Taxing as income funds that may never reach the hands of the taxable person.

Should action in the courts result in invalidation of vital provisions of the law or rulings of the Treasury Department, the blame will belong, not to individuals who made the test in the cause of justice and right and safe government, but to politicians in Congress wedded to the weird conception that might well have been a masterpiece produced in the moot-court of the freshman class of a law school.

PRESERVATION OF RAILROAD TIES.

IMPORTANT facts concerning the use of railroad ties after treatment with a preservative process were presented before the annual meeting of the American Wood Preservers' Association at New Orleans recently by J. H. Waterman, superintendent of timber preservation for the Chicago, Burlington & Quincy Railroad Co. He read a paper containing much data about the zinc chloride method of timber preservation as far as its influence upon the life of ties was concerned, and the system of tests instituted several years ago on the Burlington, and which is now being continued, seems to be so thorough as to deserve special mention. There are more than 26,000 experimental ties in the tracks, and they are carefully watched and inspected. Mr. Waterman further says that after four years' service not one tie treated by any process has been taken out on account of decay, whereas over 80 per cent. of the untreated ties put in track in 1909 have been removed because of rot. He believes that many of the treated ties will still be giving satisfactory service for 12 to 15 years, and he will not be surprised if some of them give longer service than that. For instance, in the year 1900 there were 550 ties laid in South Dakota in unbroken sequence, and all of them gave 12 years' service. In September last only 21 had been removed, 18 in 1912 because of decay, while the other three were used for laboratory tests. The wood was red oak treated with zinc chloride, and he says there is no question that 80 per cent. of them will give 15 years' service. The climate is dry, which is said to be favorable to this process. He thinks that 50 per cent. of them will give 20 years' service.

Mr. Waterman dwelt upon the importance of thoroughly seasoning ties before treatment, and said that the reason for reported failures of the process was seasoning in a hasty manner, and also because they were not carefully and thoroughly treated. He denied that he was personally favoring the treatment of ties by the zinc process, and said he only desired to give the facts as to results with ties after they had been preserved with zinc. He said that one railroad manager had told him of zinc-treated ties which had been taken out of track after only three years' service. Lack of proper seasoning and imperfect treatment were the causes of this.

Another experience of the Burlington, and in a more trying climate so far as moisture is concerned, was conducted in Illinois with red oak ties treated by the same method. There were 35,000 of such ties laid within three months following November 15, 1903. There are 21,000 of them yet in the track, and more than 90 per cent. of them gave nine years' service, or 60 per cent. gave 10 years' service. Furthermore, Mr. Waterman says that many of those removed were taken out of the track because they had worn under the rails, tie plates not having been used. At present all treated ties are being laid loose.

Besides the straight zinc process, ties were also treated with a mixture of zinc and creosote, and again with the straight creosote method, and the speaker further stated that if either of the last two processes gave better service than zinc chloride (which would be revealed by experience in due time), he would report the fact to the association. The experiments are being conducted with a variety of woods, some 20 kinds being employed.

In conclusion, Mr. Waterman declared it to be a crime to use inferior woods for ties without treatment of some kind. Anything was better than no treatment. He had obtained some data on a trip in the extreme West, showing that on one of the great trunk lines few untreated ties gave more than four

years' use, and after five years all were taken out of track. It required 60 years to grow a tree fit for ties, which, put in track without treatment, decays in three years, whereas if properly treated it would give 12 to 20 years of service. Ties could be treated with zinc chloride for 10 cents apiece or less, but there was no need to make the treatment any more complete than to keep the ties from decay long enough for the mechanical life to be gotten out of them. In other words, ties will wear out, and money is thrown away for a treatment which will make them practically everlasting so far as rot is concerned.

The facts presented by Mr. Waterman and his conclusions drawn therefrom are deserving of consideration by all who are interested in the preservation of our forests, upon the resources of which the railroads make such heavy drafts. His data seems to show that so far as ties are concerned a saving of considerably more than 50 per cent. is assured by proper seasoning and treatment.

SOUTHERN WOOL PRODUCTION.

IN the past calendar year 5,803,000 sheep of shearing age in 16 Southern States yielded 31,041,250 pounds of washed and unwashed wool, valued at \$6,329,650, the 36,319,000 sheep of shearing age in the whole country yielding 252,675,300 pounds of wool, valued at \$43,785,054. The production by separate States is shown in the following table:

States.	Sheep of shearing age.	Wool, pounds.	Value.
Alabama.....	115,000	373,750	\$88,056
Arkansas.....	100,000	400,000	86,400
Florida.....	100,000	325,000	76,570
Georgia.....	175,000	612,500	138,548
Kentucky.....	775,000	3,565,000	853,461
Louisiana.....	140,000	490,000	115,444
Maryland.....	128,000	704,000	141,926
Mississippi.....	150,000	562,500	130,388
Missouri.....	1,050,000	7,087,500	1,481,288
North Carolina.....	150,000	562,500	123,975
Oklahoma.....	55,000	357,500	58,988
South Carolina.....	30,000	108,000	23,803
Tennessee.....	465,000	1,953,000	441,769
Texas.....	1,350,000	8,775,000	1,312,740
Virginia.....	445,000	2,002,500	499,824
West Virginia.....	575,000	3,162,500	756,470
Total.....	5,803,000	31,041,250	\$6,329,650
United States.....	36,319,000	*296,175,300	*\$57,582,954

*Including 43,500,000 pounds of pulled wool.

There was little change in the Southern production in 1913 from that of 1912, although there was a falling off in the whole country of 9,868,100 pounds, according to the annual wool review published in the bulletin of the National Association of Wool Manufacturers, from which these figures have been compiled. This decrease in the country is attributed to the great strike of garment workers in New York, to tariff changes, to the restriction of sheep ranges by the forest-reserve policy, to closer settlement, to the slaughtering of more sheep for food and to the establishment of homesteads in range regions, and the turning to dairying, fruit raising and other agricultural pursuits.

In spite of its natural facilities for sheep raising, the South has not kept pace with the rest of the country in that industry, and these statistics of wool production are indicative of the general situation. Last year, on April 1, 12 States of the country had each more than 1,000,000 sheep of shearing age. Only two of these States, Missouri and Texas, were in the South, and the total number of their sheep, 2,400,000, was 41 per cent. of the total number in the whole South. Ohio had 950,000 more sheep of shearing age than the aggregate of West Virginia and Kentucky, just across the Ohio River. New Mexico, with 122,503 square miles of territory, had twice as many as Texas, more than twice as large in area, and Montana, which led the States of the country, had 4,200,000, or only 1,600,000 fewer than the whole South had. There were marked differences within the South itself, North Carolina having five times as many as South Carolina, West Virginia having 130,000 more than Virginia, and Kentucky having 310,000 more than Tennessee.

With the pressure upon the country's flocks of sheep for food purposes, and with the discouragements, such as the comparative inability to control the output of worthless dogs in rural districts, it does not seem likely that sheep raising is soon to be as extensive as it could be made in the South. But even in spite of the changes in the tariff, the call

for the sheep in the meat markets and the value of sheep raising as a contributor to the upbuilding of the soil and the maintenance of its fertility ought to be sufficient to lead the South to give greater practical attention to the matter.

CHANCE FOR PACKING-HOUSES.

BETWEEN April, 1910, and January, 1914, with an estimated increase of nearly 7,000,000 inhabitants of the United States, there has been a decrease of 7,305,000 beef cattle, sheep and swine on the farms of this country, according to figures of the National Department of Agriculture. There has been a slight increase of 747,000 in the number of swine from 58,186,000 to 58,933,000, but there has been a decrease from 52,448,000 to 49,719,000, or by 2,729,000, in the number of sheep, and a decrease from 41,178,000 to 35,855,000, or by 5,323,000, in the number of beef cattle. To give the present population of the country the same meat supply as the population of 1910 had would require 18,259,000 more meat cattle, sheep and swine than the present estimates show. The department mentions among the causes contributing to this shortage the encroachment of farms upon ranges, the shortage in corn and forage crops on account of the drought in Kansas, Nebraska and Oklahoma in 1913; the increased cost of labor and stock feed, the overshadowing of local slaughtering establishments in the East and South by the competition of the great central slaughtering establishments of the West and central West, the temptation to sell live-stock at prevailing high prices, the ravages of disease, and the competition of higher prices for other farm products. Some of these causes are temporary in their character, and it is believed that some of them may be avoided in the future if in the South, which is ideally circumstanced for cattle raising, and with the facilities offered by artificial refrigeration, admirably fitted for an expansion of the packing-house industry, more attention than ever before should be given to cattle raising. On another page of this issue Capt. J. F. Merry of Manchester, Iowa, long identified with the material development of the South, presents the interesting possibilities in live-stock for the South, indicated in the success on that line in Mississippi, where the packing-house idea has already gained permanent lodging. There is no reason in the world why a few great central establishments of the kind should dominate the meat markets of the country, especially in regions where meat animals of all kinds can be raised. If individual capital is too much occupied in other lines to become interested in packing-houses, it is quite possible for plants to be established through co-operation of large farmers, wholesale grocers and butchers. Such is the suggestion of John William Dunn of Asheville, N. C., who, as readers of the MANUFACTURERS RECORD will recall, has shown much interest in the development of the packing-house industry in the South. He calls attention to a movement of the kind in Wisconsin to take care of live-stock raised in the locality, so as to save freight both ways for local consumers and to open distant markets for the surplus. He does not elaborate the details of the plan, but they can be easily worked out to suit local conditions.

THE HENRY EXALL FARM BOOK.

During the last months of his life Col. Henry Exall practically completed a textbook on up-to-date farming, intending it to be used to some extent in place of bulletins in the crop contests of the Texas Industrial Congress. It was written especially to meet farming conditions in Texas.

The work of the congress, expressed in few words, has been to popularize scientific farming. Colonel Exall therefore laid hold of the wealth of useful information locked up in Government bulletins; in reports from the experiment stations of the States, and in the works of scientific agriculturists, and made out of it a plain, simple, easy digest in language that everybody can understand, and to this he added a number of conclusions and suggestions from his own study and experience. He knew that the farmers of Texas, as a class, are not college graduates, and that most of them are not high-school graduates, and that many of them are

not even common-school graduates. He therefore barred out all scientific jargon, and used the words he would have used in talking to his farmer friends personally.

There are 28 chapters in the book, on such subjects as preparing the land, drainage, use of fertilizers, seed selection, livestock, dairy farming, hog-raising, the silo, better corn, better cotton, farm bookkeeping, landlord and tenant, and healthfulness on the farm.

The book is now being printed. It will be ready for distribution in March, and will be sold at \$1 per copy, the proceeds being used to meet the expenses of the congress.

INDUSTRIAL ACTIVITIES SOUTH.

During January the Construction Department of the MANUFACTURERS RECORD published 5490 items relative to industrial, building, railroad, financial and general business developments in the South and Southwest. These items have appeared daily in the *Daily Bulletin* and weekly in the MANUFACTURERS RECORD, and, under various appropriate headings, are summarized in the following table.

Machinery, Proposals and Supplies Wanted columns for January contained 598 requests for information and prices on municipal and other contracts, machinery, materials of all kinds, etc., these having come from correspondents in various localities, including some foreign readers in Panama, Cuba, Porto Rico, Mexico, England, France and Malta. The table follows:

Industrial and Developmental.	
Bridges, Culverts, Viaducts.....	96
Canning and Packing Plants.....	20
Clayworking Plants.....	20
Coal Mines and Coke Ovens.....	55
Concrete and Cement Plants.....	4
Cotton Compresses and Gins.....	19
Cottonseed-oil Mills.....	5
Drainage Systems.....	24
Electric Plants.....	136
Fertilizer Factories.....	12
Flour, Feed and Meal Mills.....	34
Foundry and Machine Plants.....	39
Gas and Oil Enterprises.....	145
Ice and Cold-storage Plants.....	58
Iron and Steel Plants.....	1
Irrigation Systems.....	2
Land Developments.....	105
Lumber Manufacturing.....	103
Metal-working Plants.....	10
Mining.....	51
Miscellaneous Construction.....	56
Miscellaneous Enterprises.....	114
Miscellaneous Factories.....	245
Motors and Garages.....	48
Railway Shops, Terminals, Roundhouses, etc.....	4
Road and Street Work.....	235
Sewer Construction.....	89
Telephone Systems.....	41
Textile Mills.....	42
Water-power Developments.....	18
Water-works.....	116
Woodworking Plants.....	61
Buildings.	
Apartment-houses.....	124
Association and Fraternal.....	45
Bank and Office.....	106
Churches.....	116
City and County.....	33
Courthouses.....	30
Dwellings.....	410
Government and State.....	54
Hotels.....	63
Miscellaneous.....	107
Railway Stations, Sheds, etc.....	42
Schools.....	196
Stores.....	302
Theaters.....	38
Warehouses.....	53
Railroad Construction.	
Railways.....	147
Street Railways.....	28
Financial.	
Corporations.....	167
New Securities.....	461
Fire Damage.....	4593
Machinery, Proposals and Supplies Wanted.....	239
Total for January.....	5490

New Pipe Plant Operating.

The Anniston (Ala.) plant of the Lynchburg (Va.) Foundry Co. has begun operations with a daily capacity of more than 100 tons of pipe. It is of fireproof construction, and represents an investment of approximately \$250,000, providing employment for about 200 men. There are two pipe-casting pits, of circular form, each having a daily capacity of from 50 to 60 tons. These pits are of steel and concrete construction.

GEORGIA CHAMBER OF COMMERCE.

Enthusiastic Gathering of the State Organization at Macon.

[Special Correspondence Manufacturers Record.]

Atlanta, Ga., January 31.

The get-together meeting of Georgia farmers, bankers, business men and public officials, under the auspices of the Georgia Chamber of Commerce, was held in Macon January 29 and 30, and more than 1000 delegates from practically every county in Georgia were present, the Governor of Georgia made a ringing address and enthusiasm ran high during the two days' sessions.

The work of the good-roads committee stands out as among the important movements started at the convention. Emory Winship of Macon, a millionaire and an enthusiast on good roads, swung his strong committee into line for active work. A paid secretary will be employed solely for this committee. By the plans outlined this committee will become in itself a specialized chamber of commerce, and upon its own initiative will begin at once an intensive campaign for good roads throughout Georgia. Steps will be taken to organize automobile owners, farmers and all other interests into a State-wide movement, with the result that Georgia will become famed for her splendid highways. The committee on public laws, Barry Wright of Rome, chairman, will undertake consideration of a good-roads law designed to construct highways throughout the State, under State supervision, on the county-seat-to-county-seat system. By the work outlined and to be actively pushed, it is assured that Georgia will have such roads that will lessen the cost of haulage of farm products to market and add to the comfort and happiness of all residents along such highways and will bring thousands of tourists annually to this State.

The boll-weevil came in for a full share of attention. The cotton products committee, of which B. L. Bond of Royston, who is also president of the Georgia Cottonseed Crushers' Association, is chairman, discussed the best methods to resist the boll-weevil and the seed best suited to resist its ravages. They will arrange to furnish each section of the State the seed which will resist the weevil. This committee went on record as being opposed to giving up cotton raising in Georgia to any appreciable extent, as it was pointed out that Georgia farmers have from long experience become more proficient in raising cotton than anything else; that the cotton plant will withstand more ill-treatment and more hardships from drouth and flood than any plant known. The suggested remedy to combat the boll-weevil is to plant early, cultivate and fertilize intensively, and buy seed which is more able to withstand the inroads of the boll-weevil. The committee on boll-weevil and cotton culture, H. C. Hastings of Atlanta, chairman, held an important meeting in conjunction with the demonstration agents of the State agricultural department, and perfected plans to carry the propaganda and demonstrations further toward the eastern part of the State, this being in addition to the 23 counties now being thoroughly campaigned by the Georgia Chamber of Commerce.

Col. B. W. Hunt of Eatonton, chairman of the rural credits committee, was active in the good work for better financial conditions for the Georgia farmer. It was declared that the State would never enjoy the prosperity that it might until the owner of the farm moves to it and manages his own business; that in many respects the tenant system was wrong, and plans were laid which will work out for a more equitable system of farm finance for Georgia. Joseph A. McCord, an Atlanta banker, made a strong address on this subject and took occasion to praise President Wilson for his courage and convictions, and stated that the next movement the President has in hand is that of rural credits.

"As commissioner of agriculture of this State I am going to help the small farmer and the big farmer, and I want you to all appeal to my department when I can assist you." This was a statement by Hon. J. D. Price, Georgia commissioner of agriculture. He advised the farmers to raise "hog and hominy" and pleaded that more cattle and hogs be purchased and raised. He made it appear easy to get ahead of the boll-weevil if the Georgia farmers will follow the example of farmers in States already visited by the weevil.

President K. G. Matheson of the Georgia School of Technology made an address on "Industrial Training in Georgia." He stated that the old order is changing in Georgia in education and that boys were now being taught practical vocations and where the whole man is

developed. "Put the whole boy to school," said Dr. Matheson. "Develop his mind and body, thereby strengthening his character, which, after all, is what we are striving for. This develops system and self-reliance; it prepares him for real life and makes him equal to any occasion in business or professional work." He recommended the establishment of trade schools in all towns and cities having a population of 2000 or more.

Dr. A. M. Soule of Athens, president of the State College of Agriculture, made an appeal for Georgia girls and told how the girls would help solve the problem of the boll-weevil by putting up canned goods and fruit which cotton is not paying for. He appealed to the business men and the farmers to give a share of their finances and their moral support to the work of the State College of Agriculture. "If you have \$30 to put into a savings bank it is pretty good, but how much better it would be to put it into a short course at the State college for some worthy girl of your State, that she may get a vision of what she can mean to Georgia and to her people." In outlining some of the departments of the State college, President Soule told of the 27 test farms in the State; of the soil survey being made of the counties in all parts of the State; of the work of the Central of Georgia Railway in co-operation with the State college, and other departments of the work in all Georgia counties.

Bradford Knapp, special agent in charge of farmers' co-operative demonstration work, United States Bureau of Plant Industry, made an address on farm demonstration work.

Gov. John Marshall Slaton complimented the work of the State chamber and emphasized the "pull-together" spirit. "The Georgia Chamber of Commerce does not deal in theories, but in practicalities," he said. "Nothing that is for Georgia fails to interest us. The State chamber has a mission to perform, and that is one that all Georgia should feel an interest in. This great organization is vitally interested in North Georgia, in Central and in South Georgia in the same degree," he stated. Governor Slaton then went into an exhaustive review of Georgia's financial affairs. He emphasized the importance of Georgians pulling together for one common cause and for the welfare of the State, as the credit of Georgia must be good when he goes to New York next summer to sell a million dollars' worth of bonds for a refund debt, the first of the kind to come upon Georgia in 30 years. He spoke of the equalization of taxes, and his remarks were received in their entirety with enthusiasm by an audience of over 1000 delegates to the State chamber and other interested citizens.

An ovation was given M. V. Richards of Washington, D. C., land and industrial agent of the Southern Railway, who spoke on "Relation of Railroads to the Public Good." This railroad is working in close harmony with the State chamber, and has placed its force of over 30 demonstration agents on the boll-weevil question, under the direction of T. O. Plunkett, to work in conjunction with those active around Georgia in the work mapped out by the Georgia Chamber of Commerce.

"Right here in the Southeast and in Georgia is the best part of the United States," declared Mr. Richards when he sought to show the members how important it is to know their State and tell it to home-seekers in other parts of the country. Mr. Richards stated the Southern Railway is closely allied with the same interests that the State chamber hopes to forward in Georgia. He stated that he deplored the fact that many people have left Georgia and the Southeast, going to the West, when they have at their command in this section some of the greatest inducements to be offered in agricultural and industrial lines.

"If some counteracting influence had not started, they would still be going away," said Mr. Richards. "Your railroads have been an important factor in creating this influence to have them remain here. We have tried to carry out the work consistently, and I think that we have won."

The old saying that railroads are not sincere in their work for the welfare of people residing along their lines is untrue, according to Mr. Richards. He stated yesterday that his company, like others, had spent vast sums of money in industrial work, in good-roads campaigns, in farm-improvement work and in educational work. He pledged his support to the State chamber and commended the leaders of the movement for the success that has attended their efforts.

Other addresses were on "Importance of Good Roads," by L. G. Hardeman of Commerce, Ga.; on "Fruit Growing in Georgia," by R. C. Berckmans of

Augusta; on "Studying the Resources of Georgia," by J. Lindsay Johnson, editor *Rome Tribune-Herald*, and on "Some Cotton Problems in Georgia," by State Entomologist E. Lee Worsham of Atlanta.

The committee meetings were well attended and were beneficial. It is thought that as a result of the discussions in the committee meetings many problems concerning agriculture, rural credits, water-powers, forest products, livestock raising, food products and cotton by-products will be worked out to a better understanding and a more practical solution. President Charles J. Haden expresses himself as being elated at the success of the Macon meeting, not only in the large attendance, but in the enthusiastic way in which the work was carried out. "Our midwinter meeting was a great get-together occasion for Georgians," said Mr. Haden, "and we feel wonderfully encouraged at the spirit of 'boost Georgia' shown on all sides. This organization is actively working for the best interests of the whole State, and we feel encouraged to more actively push our plans from now on since the unqualified success of the Macon meeting."

The Extent of Mineral Waste.

It is a reasonable estimate that the present waste, in large measure unnecessary, of mineral resources amounts to a national loss of not less than \$1,000,000 a day, according to the forthcoming annual report of Director Joseph A. Holmes of the National Bureau of Mines.

In one respect at least a consideration of the mineral wastes has a basis quite different from the consideration of agricultural wastes. Our crops represent an annual production from a reasonably permanent soil; our forests may grow again, though a much longer period of time is required; and the soils themselves may be reproduced from the subsoil and the rock beneath. But of our mineral resources we have only the one supply. This supply is to a considerable extent destroyed in use, and at the present increasing rate at which we are using and wasting it our one supply will be either exhausted or largely depleted while the nation is yet in its youth.

The most urgent need for investigation and reform is in connection with the unnecessary waste of oil and natural gas that still prevails in many parts of the country. Even with the limited facilities at its disposal the bureau has been able during the current year to stop a waste of natural gas valued at not less than \$10,000,000, an amount that exceeds by six times the total cost of the bureau's investigations to date. There is urgent need of enlarged facilities with which to push this work more rapidly. A few years of further delay and this valuable source of national wealth will have been wasted—permanently lost.

The individual operators in causing this waste have followed their natural bent for temporary gain. The States have permitted this criminal waste without protest, fearing that interference might retard development. Will the National Government do the same? The saving already accomplished was the result of inquiries and researches that enabled the engineers of the bureau to demonstrate to the oil and gas men in one of the Oklahoma fields that much waste of gas could be prevented without stopping the drilling for oil.

If the funds at the disposal of the bureau had been large enough to provide for more extended investigations and demonstrations, the prevention of waste would have been much greater. As it is, however, in many parts of the Oklahoma oil and gas fields the waste of natural gas that still continues is equivalent to \$15,000,000 to \$20,000,000 per annum, and this waste in all of the oil and gas fields of the country now aggregates more than \$50,000,000 per annum. Of the total waste of gas in the different oil fields of the country, more than 80 per cent. is believed to be easily preventable. As regards the remaining 20 per cent., it is believed that gasoline may be extracted from much of it and the gas itself burned for some useful purpose.

The need for enlarged investigation is further shown by the fact that in addition to this waste of gas the waste of petroleum, and especially the loss of the lighter oils, in pumping and storage is much greater than is ordinarily supposed. Moreover, the injury caused in a number of oil fields through the flooding of oil and gas strata by underground water is another phase of the subject calling urgently for inquiry and investigation.

It is estimated that the proposed investigations into

the waste of oil and gas would cost from \$30,000 to \$40,000 per annum, and it is believed that the saving to the national wealth would be more than a hundred-fold for each dollar expended in such an investigation.

The waste in coal mining is another drain on our national wealth which calls for serious and extended inquiry and investigation. A preliminary estimate, based upon limited inquiry and examination, indicates an annual waste or loss of coal in mining and handling of not less than 250,000,000 tons per annum. This represents a loss from our best and most easily mined coal and those nearest our great centers of industry. What is needed in connection with this loss is a thorough underground survey and examination at certain carefully selected areas in each of the important coal fields of the country, with a view to determining the exact conditions under which mining operations take place and the possibilities of adopting less wasteful methods. With this large amount of accurate information laid before the public, it will then be possible to obtain the adoption of far less wasteful methods of mining. Such an investigation, thoroughly conducted, would cost about \$50,000 per annum for three or four years. It is confidently believed that the results of such an investigation would mean a saving in fuel resources having a value to the nation of considerably more than \$50,000,000 per annum.

There is need of similar investigations looking to a reduction in the wastes or losses in the mining, preparation and treatment of our metalliferous ores and metals, which wastes and losses aggregate in different cases from 10 to 50 per cent. of the total yearly production of such minerals and metals. A few of these wastes may be regarded as representing to some extent a deferred use of the materials. These it is now proposed to investigate. Many others represent a total and permanent loss, and in the majority of our metals this reduction in our national supply will at no distant date become a serious problem. Certain investigations relating to both safety and waste in connection with our metal mining and metallurgical operations are already under way, but they are quite inadequate to meet the need for investigations in these branches of the mineral industry.

Foreign Commerce in 1913.

The imports into and exports from the United States in December and the 12 months ended with December, 1913, just compiled by the Department of Commerce, show imports in December \$183,732,736, against \$154,065,444 in December, 1912, and exports in December \$233,488,512, against \$250,315,867 in December, 1912. For the 12 months ended with December the imports are \$1,792,183,645, against \$1,818,073,055 in 1912; the exports \$2,484,311,176, against \$2,399,217,993 in 1912.

The imports of December are larger than those of any earlier month in the history of the foreign trade, the next largest month having been October, 1912, \$177,987,986.

The excess of exports over imports in the calendar year 1913 was \$692,127,531, against \$581,144,938 in 1912. This excess of exports over imports was larger than in any preceding calendar or fiscal year of our foreign commerce, having been in the calendar year 1908 \$636,461,360, and in the fiscal year 1908 \$666,431,554.

The share of the imports entering free of duty in December, 1913, was 63.86 per cent., against 58.42 per cent. in December, 1912, and in the full calendar year 1913 55.33 per cent., against 54.58 per cent. in 1912.

The imports of gold in December, 1913, were \$5,073,357, against \$11,397,007 in December of the preceding year, and for the calendar year 1913 \$63,704,832, against \$66,548,772 in 1912; the exports of gold in December, 1913, \$10,572,593, against \$656,704 in December, 1912, and for the full year 1913 \$91,798,610, against \$47,424,842 in 1912. The imports of silver in December, 1913, were \$2,810,368, against \$3,998,153 in December, 1912, and for the full year 1913 \$35,867,819, against \$48,401,086 in 1912. The exports of silver in December, 1913, were \$4,457,539, against \$7,608,144 in December, 1912, and for the full year 1913 \$62,776,631, against \$71,961,755 in 1912.

The Commercial Club of Sapulpa, Okla., is circulating a booklet full of attractive illustrations of the developments of various kinds in that city, which in 13 years has increased in population from 1400 to 13,787.



BUILDINGS OF LA VERNET STOCK FARM, JACKSON, MISS.

Livestock in Mississippi

INDICATIONS OF THE POSSIBILITIES IN THE CATTLE INDUSTRY FOR THE STATE.

By CAPT. J. F. MERRY of Manchester, Iowa.

During the summer of 1910 the writer was invited to deliver an address at the twenty-second annual session of the National Livestock Exchange, to be held at East St. Louis during the month of September. The topic assigned me by the secretary of the Exchange was "The Livestock Industry of the South." On account of our long connection with the Illinois Central Railroad Co., we were quite familiar with Southern conditions, and especially with the livestock potentialities of Mississippi. We therefore naturally based our arguments very largely on livestock conditions as they then existed in that Southern State.

Good food and plenty of it was the first essential in the successful breeding and feeding of livestock. In this particular Mississippi was especially favored. Corn, oats, cowpeas, cottonseed meal, lespedeza, Bermuda and alfalfa were natural products of Mississippi soil. Possibly some of the readers of the MANUFACTURERS RECORD may

"Concerning tick work in Mississippi: We have been working about five years, and have succeeded in eradicating the tick from 30 counties in the State, and are working in about 20 more. The State of Mississippi expended \$35,000 in the work of 1910-11 and \$25,000 during 1912-13. I cannot say just what the Federal Government is doing, but during the present year we had 27 Federal veterinarians assigned to the work in Mississippi, the counties, of course, bearing the bulk of the expense. We have figured that the cost of tick eradication in Mississippi is only about 50 cents per head of cattle. In Hinds county, with about 40,000 head of cattle, the entire work was 20,000 and the value of each animal has been increased from \$5 to \$10. Tick eradication in Mississippi has been one of the most successful movements ever undertaken in the State."

This statement of Commissioner Blakeslee indicates very clearly that the tick pest, the only bar to the highest development of the livestock industry in Mississippi, is soon to be entirely removed. The object of this article is to show precisely what is being done in Hinds, one of the counties in Mississippi, where the tick has been eradicated.

On January 1, 1910, Mr. W. J. Davis bought a worn-out cotton plantation two miles west of Jackson, Miss., and in sight of the new Capitol building in the county of Hinds. He immediately erected new buildings,

upon him the purple decorations indicating that he was the grand champion of that great exposition. We tried to maintain the dignity becoming a man of 70, but, if we were even a little hilarious, I am sure our Southern friends will pardon us when it is known that only four years ago we prophesied that Mississippi was destined to become a great center of a prosperous livestock industry. It was currently reported that Davis & Co. was offered \$10,000 for Point Comfort 14th, and that they did not sell him proves their loyalty and devotion to Mississippi. That he is an exceptional sire is proved by the fact that his calves sold to date have averaged \$738 each. But not only is this grand champion bull a great thing for the State of Mississippi and especially for W. J. Davis & Co., but they have also a cow, Tea Rose, No. 260,515, that has won the distinction of being dam to a calf that at 13 months old sold for \$1975. A cut of this celebrated Mississippi Hereford cow also appears in connection with this article. Ye Hereford breeders, North, South, East or West, look this cow over and note if you can find any point that would indicate anything but a perfect cow.

The writer has not forgotten when, 30 years ago, on a trip from Fulton, Ky., to New Orleans, not a dozen well-bred, well-fed cows would be seen. Some years ago, on our way South with a trainload of landseekers, the party was entertained at a complimentary breakfast. It was in one of the many splendid towns in Mississippi. The gentleman who made the address of welcome was a prominent attorney, and in describing the attractions that he thought would appeal to Northern landseekers, he said:

"Gentlemen of the North, cattle in Mississippi do not have to be housed or fed even in winter as they do in the frozen North."

On our way to the station a bunch of cows unfortunately crossed our pathway and one of the party called out, "Captain, tell your friend that cow feed and cow barns would improve their stock even in Mississippi." As a matter of fact, these cows were so poor they wobbled as they walked. Don't let anyone make the mistake of thinking that Point Comfort 14th and Tea Rose are turned loose in the woods to browse on cane or into an old cotton field where there is not enough forage in a 10-acre field to make a single feeding for a healthy cow. No, indeed. The La Vernet stock are fed at the proper time with the best-balanced ration known to breeders. And now comes the baby, Vernet Prince, No. 415,798. Take a good look at him. He lacks one day



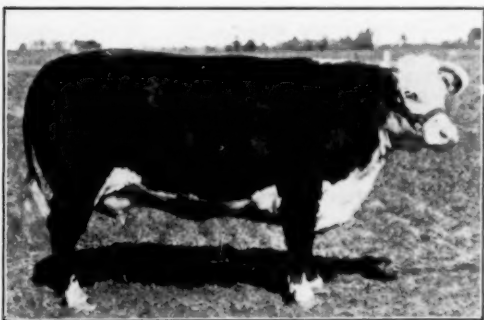
POINT COMFORT XIV, NO. 337,488.

This bull, owned by W. J. Davis & Co., Jackson, Miss., was the grand champion at the International Livestock Exposition at Chicago in 1913. He is the sire and Tea Rose is the dam of Vernet Prince IV, which sold for \$1975 last October.

have forgotten that Mississippi carried off the gold medal prize for the best bale of alfalfa exhibited at the St. Louis Exposition in competition with Nebraska, Colorado and California. We emphasized the great variety, quantity and quality of the stock foods of Mississippi. We also showed that another essential to the livestock industry of Mississippi was its abundance of pure water from rivers, creeks, lakes, bayous and artesian wells. The only question that gave us any uneasiness in our attempt to prove that Mississippi had all the natural conditions for the development of a great and profitable industry was the cattle tick. This is what we said:

"The work of tick eradication is now being prosecuted in Mississippi in 11 counties, three of which have been relieved of this pest, and the price of cattle in these counties has already increased 50 per cent."

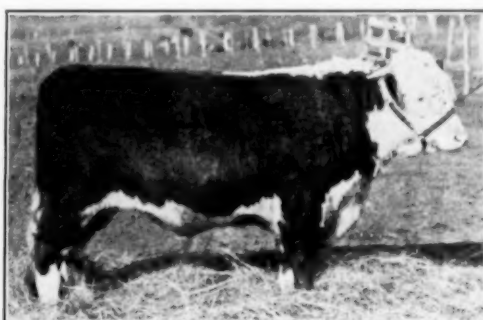
Now comes a letter bearing date of December 16, 1913, from Hon. H. E. Blakeslee, commissioner of agriculture for Mississippi, which reads as follows:



TEA ROSE, NO. 260,515.

newly fenced and subdivided the farm into convenient fields and began the purchase of the very best Hereford breeding stock to be found in the United States. Mr. Davis soon found that he could not well handle such a business alone, and very wisely took in his son as junior partner in the firm of W. J. Davis & Co.

A farm destined to be known, especially wherever Hereford cattle are bred, must have a name, and after the usual discussion and suggestions of friends it was named La Vernet Stock Farm, a cut of which is seen in this article. As we remember it, this farm cost originally \$60 per acre. To be sure, it was in a run-down condition, but it is hard for a Westerner to conceive of farm lands located within two miles of such a splendid city as Jackson, the Capital of Mississippi, selling for \$60 per acre. We venture the assertion that the owners of La Vernet Stock Farm would not consider for a moment an offer of \$500 per acre, now that it has been fully demonstrated that it is especially adapted to breeding purposes. Let me call attention to the cut of Point Comfort 14th, No. 337,488. The Hereford bull owned by W. J. Davis & Co., the herd bull at La Vernet Stock Farm. The writer sat in the amphitheater at the Chicago International Livestock Show, and within 60 feet of Point Comfort 14th when the judges placed



VERNET PRINCE IV, NO. 415,798.

of being 13 months old. His sire is Point Comfort 14th and his dam Tea Rose, both of which are shown in this article. This calf attended the American Royal Stock Show at Kansas City last October, and on the 8th of that month was sold at auction to the highest bidder. The bidders for this calf were not sons of millionaires who might have been tempted to pay a fabulous price for such a perfect animal. They were noted Hereford breeders, such as Mr. Warren T. McCray, Kentland, Ind.; J. M. Curtice, Kansas City, and Overton Harris & Sons of Harris, Mo. The latter firm bid \$1975, and the calf was knocked down to it.

You now have before you, readers of the MANUFACTURERS RECORD, a family of Mississippi Herefords unsurpassed in any State or in any country. What Mississippi has done, through W. J. Davis & Co., can be duplicated in at least two-thirds of the Southern States. Secretary of Agriculture Wilson made no mistake when, on September 22, 1910, he made the following statement: "The decrease in cattle raised in the West is a serious problem, and it has caused the rise in the price of meat. The ranchmen are being driven out by the homesteaders, and the land in the West that for years was turned over to cattle is being cut up into farms. I think, however, that we will find another source of

meat supply. Hitherto cattle from the South could not be shipped North on account of the cattle tick which infested them. Congress has now appropriated sufficient money for this department to exterminate the tick in area equal to four Southern States."

Since 1910 other appropriations have been made, and now two-thirds of the counties of Mississippi are engaging in the livestock industry, and within two years enterprising firms like Davis & Co. will be found in every county in Mississippi breeding not scrubs, but fine breeds of mules, horses, cattle and hogs.

SOUTH PITTSBURGH INDUSTRIES.

A Tennessee Community That Welcomes Diversification in Manufacturing.

[Special Correspondence Manufacturers Record.]

South Pittsburgh, Tenn., January 30.

South Pittsburgh, in Marion county, Tennessee, is located on the western bank of the Tennessee River, at the south end of the Sequachee Valley and two miles north of the Alabama line, 130 miles from Nashville and 34 miles from Chattanooga by rail, at the head of deep-water navigation of the Tennessee River, and is situated in the center of a beautiful cove formed by the Cumberland Mountains on a gentle slope toward the river.

The climate is all that can be desired. Situated as it is, in the valley, it is protected by nature and in summer is cool and pleasant; in winter the mean annual temperature is about 61 degrees. The summer heat rarely exceeds 90 degrees, and is always tempered with balmy breezes. There is a never-failing supply of clear, sparkling water, which comes to the residents for drinking purposes, through a water-works system, from springs located in the mountains, and for manufacturing and other purposes the supply is furnished from the Tennessee River.

Churches of all denominations are here, and the schools are first-class. They are large and commodious and well arranged to accommodate all who will attend for some years to come. The city is well laid out, and is supplied with electric lights, telephone and telegraph, has up-to-date sewers, and, as stated above, good water-works.

The soil is rich. The Sequachee Valley has always been noted for the fertility of its soil. It therefore offers advantages to the farmer as well as the manufacturer.

With all these advantages it can be readily seen what South Pittsburgh offers to manufacturers, for with such facilities a business man would be fully satisfied.

There is an abundance of lumber; in fact, every variety of wood suitable for a builder or manufacturer can be found here. Logs of all kinds can be rafted here at a slight expense from many places in East Tennessee. Hardwood manufacturers of all kinds would find this an admirable location for handle works, furniture factories; in fact, any industry where woods of all kinds enter into their manufacture.

The Dixie Portland Cement Co., which is one of the largest cement works in the South, is located here, and with still an unlimited amount of raw material in this vicinity, which is inexhaustible, another cement plant could be started.

There are a large number of diversified manufacturers here, and they welcome new industries of all kinds. A manufacturer of stoves and ranges, two foundries, the slot mill of the Eagle Pencil Co. (and, by the way, this company has enough cedar to supply it for several years at this branch), a hosiery mill, an ice factory, etc. The great Hales Bar power plant is only eight miles from South Pittsburgh, and as a consequence cheap power may be obtained. This power plant has a development of 65,000 horse-power available, and cheap rates are assured.

The Southern Railway Co. is going to begin at once completing that section of what is known as the Stevenson extension from Chattanooga to Wauhatchie, over which the Alabama Great Southern and the Memphis and Charleston divisions will enter that city. This work was stopped by the panic of 1907, not, however, until considerable progress had been made, included in which was the tunnel under the foothills of Lookout Mountain. This information was given by President Harrison of the Southern Railway, who said that a line of double tracks, as originally contemplated, would be built at once to Wauhatchie, where it will be connected with the tracks of the Alabama Great Southern and over which the trains of that system and of the

Memphis division, now using the Nashville, Chattanooga & St. Louis tracks, will enter the city. It was also stated that work would be renewed on the Stevenson extension, and that it was expected to have the road finished by the expiration of the present lease of the Nashville, Chattanooga & St. Louis tracks. The construction of this road into Chattanooga is going to be of material advantage to the cities through which it passes, and South Pittsburgh will be one of them very greatly benefited.

South Pittsburgh has a live business organization, the Board of Trade, composed of the men of the community who do things, and these men are not confined to just a few, for all of them in all lines of business are interested in the growth of the city and in its future welfare. They seem to realize that what affects South Pittsburgh affects them, and it does, but so few communities seem to realize this. They know that, situated as they are, the gate city to the great Sequachee Valley, the richest coal, iron and lumber district in the State, they want others to know it and avail themselves of the desirable location, the admirable sites they have for manufacturers, and they stand ready to give any reasonable assistance to manufacturers, large or small, who wish to invest in a legitimate enterprise. They have the inspiration and desire to let others take part in the growth and development of their town, which is sure to come. They have faith in their own place, and inspire you with confidence when talking on the subject. At the present time they want manufacturers, and for those who desire to change their location it would be well to get in communication with the organization, for they stand ready to encourage large and small manufacturers and to give them a hearty co-operation. The South Pittsburgh Board of trade's officers are: S. T. Haskew, president; J. Lodge, vice-president; W. M. Cameron, secretary; W. F. Arendale, treasurer; R. C. Aycock, A. A. Cook and W. H. Wilson, directors. I. S. FIELD.

FOR A MODEL MINING TOWN.

Feature of Plans for a Coal Development in West Virginia.

Charleston, W. Va., January 30.

[Special Correspondence Manufacturers Record.]

The Lackawanna Coal & Lumber Co., which owns, in fee simple, about 30,000 acres in one tract in Boone county, will begin an extensive coal operation there in the late spring or early summer. This new development will be on Hopkins Fork, a branch of the Laurel Creek, the latter being a tributary of the Coal River. It is about nine miles from Seth, which is on the Coal River division of the Chesapeake & Ohio Railroad. The new town will be Griffith, being so named for the vice-president of the company. The new village of Griffith will approach the model village as nearly as possible. The plans for it have already been completed, as well as the plans for the tippie. The most modern mining machinery will be used.

In laying out the town, the company has followed newly approved ideas in sanitation and hygiene and has sought the advice of sociological experts. It is expected that there will be about 300 houses for the miners. These houses will be erected on plots large enough to give each family a fair size lawn and adequate garden space. They will be roomy, and all of them will have running water in them and will be lit with electricity or gas.

Due attention will be paid to living conditions. Near the tippie there will be a large bathhouse for the miners, and each miner will have his own locker. There will also be two clubhouses. A hotel will be provided for the accommodation of travelers. A skating rink will also be built and near it a moving-picture theater. In this theater the company officials expect to show many pictures that will illustrate the latest methods in mining and will also help to teach the miners how to take care of themselves when accidents occur, and show how accidents may be prevented. But films of a purely entertaining nature will not be forgotten, and many of them will be shown at the expense of the company.

The railroad from Seth to Griffith, about nine miles, has been completed about a year, and the company has been using it in its lumber operations. It is estimated that there will be about 300,000,000 tons of coal in this tract. The officers of the company are W. L. Connell of Scranton, Pa., president; J. K. Griffith of Pittston, Pa., vice-president; T. J. Foster of Scranton, treasurer, and David Connell of Scranton, secretary.

NATIONAL CANNERS' CONVENTION.

Comprehensive Exhibit of the Various Phases of the Industry.

The largest gathering of people interested in the various branches of the canning industry that has met at any of the conventions is in attendance at the seventh annual convention of the National Canners' Association and Allied Industries, being held this week in Baltimore. In connection with it in the Fifth Regiment Armory is an exhibition of practically every phase of the canning industry. The representation is in a large way instructive to the sightseers as well as to the persons directly interested. The operations of handling, sealing and manipulating cans are carried on and the methods of preparing the materials are indicated. The work of the various machines is remarkably ingenious, and that great quantities of canned goods may be turned out rapidly is apparent when seeing them in action. The armory has been converted into a vast machinery hall.

Among the members of the associations present are many from the South. Practically every State in the Union is represented, and many of the delegations from a distance came on special trains. The following are among the companies represented:

E. W. Bliss Company, Brooklyn, N. Y.
Chain Belt Co., Milwaukee, Wis.
C. M. Kemp Manufacturing Co., Baltimore, Md.
Link-Belt Co., Philadelphia, Pa.
A. K. Robins & Co., Baltimore, Md.
Southern Can Co., Baltimore, Md.
Sprague Canning Machinery Co., Chicago, Ill.
Sinclair-Scott Company, Baltimore, Md.
Acme Steel Goods Co., Chicago, Ill.
American Can Co., New York, N. Y.
Max Ams Machine Co., Mt. Vernon, N. Y.
Appomattox Box Shook Co., Petersburg, Va.
Ayars Machine Co., Salem, N. J.
The Baker-Shippe Manufacturing Co., El Monte, Cal.
The Baltimore Enameling & Novelty Co., Baltimore, Md.
Boyle Can Co., Baltimore, Md.
W. W. Boyer & Co., Baltimore, Md.
Brooks Solder and Metal Works, Baltimore, Md.
Burden & Blakeslee, Cazenovia, N. Y.
Burt Machine Co., Baltimore, Md.
Chicago Solder Co., Chicago, Ill.
Chisolm Scott Company, Cadiz, O.
Colbert Canning Machinery Co., Baltimore, Md.
Continental Can Co., Chicago, Ill.
Coons-Mabbett Manufacturing Co., Rochester, N. Y.
Delphi Engineering Co., Delphi, Ind.
Economic Machinery Co., Worcester, Mass.
Frank Hamacheck, Kewaunee, Wis.
C. S. Harris & Co., Rome, N. Y.
Hohmann & Maurer Manufacturing Co., Rochester, N. Y.
Huntley Manufacturing Co., Silver Creek, N. Y.
Impervious Sheet Steel Co., Pittsburgh, Pa.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Morgan Machine Co., Rochester, N. Y.
Morrall Bros., Morrill, O.
Leonard Morrison, Troy, N. Y.
National Lead Co., New York, N. Y.
National Roofing Co., Tonawanda, N. Y.
New England Box Co., Greenfield, Mass.
Nipper Machine Co., Norma, N. J.
Peerless Husker Co., Buffalo, N. Y.
Perfect Bottle Cap Co., Baltimore, Md.
The Phelps Can Co., Baltimore, Md.
Reeves Pulley Co., Columbus, Ind.
S. M. Ryder & Son, Niagara Falls, N. Y.
Sanitary Can Co., New York, N. Y.
Schaeffer & Budenberg Manufacturing Co., Brooklyn, N. Y.
Frank P. Souder, Bridgeton, N. J.
Standard Automatic Machine Co., Rochester, N. Y.
Stevenson & Co., Baltimore, Md.
Tacks Manufacturing Co., Utica, N. Y.
C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y.
U. S. Can Co., Cincinnati, O.
U. S. Gas Machine Co., Muskegon, Mich.
U. S. Smelting Works, Philadelphia, Pa.
Weller Manufacturing Co., Chicago, Ill.
Geo. F. Westcott, Columbus, O.
West Disinfecting Co., New York, N. Y.
Wheeling Can Co., Wheeling, W. Va.
I. N. White, Mt. Morris, N. Y.
Williams Sealing Corp., Waterbury, N. Y.

Possible Clue to Income Tax Confusion

TRACES OF AFFINITY OF THE LAW AND THE INTERNAL REVENUE INTERPRETATION.

Consideration of the chaos created in the mind of the average man seeking honestly to meet the lawful requirements of the Federal income tax law has overlooked a possible cause of the chaos, the close spiritual or mental affinity of the income tax law itself and the interpretation of it in the Bureau of Internal Revenue. The link in this affinity may be a pamphlet containing an analysis of the act and explanatory notes advertised for sale at all news stands and book stores within three days after the signing of the law by the President and about the earliest exposition of the law attempted. Calculated in full appreciation of the value of the psychological moment, the phrasing of the advertisement included the following:

This Law Affects You Now---To-day

It imposes new and important duties and obligations. If you are an EMPLOYER, agent, receiver, trustee or other fiduciary or corporate officer, you must collect the tax from others or YOU WILL INCUR PERSONAL LIABILITY.

Reinforcing this advertisement was the following on pages 5 and 6 of the pamphlet:

It is estimated that the Income Tax law will affect directly more than a half-million citizens and aliens, and a very much larger number will be desirous of obtaining information which will enable them to determine whether they are within or without the requirements of the law; that is, whether their income is such as to make them liable to a tax or to require their making a return of income for the purpose of determining their liability to a tax.

This discussion is not presented as a conclusive determination of the matters discussed, because until the various requirements are more thoroughly considered it would be presumptuous to attempt to indicate the action of the Treasury Department on the refinement of questions which arise under every new law. In the main, however, this pamphlet should be a reliable guide and sufficiently definite and conclusive for a very large percentage of the taxpayers.

In spite of this qualified disclaimer of forecast of the action of the Treasury Department, the circumstances of the publication of this pamphlet tended to give it an authoritative character among the more than half a million persons affected directly by the income tax law and the very much larger number desirous of learning whether they would be affected. In spite of the disclaimer, in the pamphlet is fairly well outlined the policy of interpreting the law to the advantage of the tax-gatherer which has prevailed in the framing of the regulations, a policy which in some cases does not seem to be justified by the text of the law and in other cases is quite contrary to generally recognized rules for the interpretation of obscurities or contradictions in law.

Moreover, the pamphlet revealed lack of full acquaintance with the provisions of the income tax law, and consequently introduced an element of confusion for anybody impressed by the apparent authority of its statements.

However, the pamphlet continued the failure of the law to discriminate in the use of words having entirely different meanings, which has been crystallized in the regulations of the Internal Revenue Bureau. For example, the last sentence of paragraph B of the law says:

That in computing net income under this section there shall be excluded the interest upon the obligations of a State or any political subdivision thereof, and upon the obligations of the United States or its possessions; also, the compensation of the present President of the United States during the term for which he has been elected, and of the judges of the Supreme and inferior courts of the United States now in office, and the compensation of all officers and employees of a State or any political subdivision thereof except when such compensation is paid by the United States Government.

The pamphlet evidently does not recognize the difference in meaning between the words "excluded" and "deducted," for it interprets this provision of the law—italics ours—as follows, under a sub-head, "Deductions for Expenses, Losses, etc.":

Ninth: Interest upon the obligations of a State or any political subdivision thereof, and upon the obligations of the United States or its possessions; also the compensation of the present President of the United States during the term for which he has been elected, and of the judges of the Supreme and inferior courts of the United States now in office, and the compensation of all officers and employees of a State or any political subdivision thereof,

shall be *deducted* in computing the net income of the person making the return. Such income should be *included* in the statement of gross income, but, in accordance with the law, may be *excluded* in computing the net income.

"Excluded" as used in the law obviously means "to except from consideration."

"Deduct" means in practically every connection, "to take from," or "to subtract."

But the battledoor and shuttlecock interpretation in the early pamphlet makes the two words synonymous. Net income is to be discovered by subtracting from gross income the deductions allowed by law. If, in the statement of gross income, the interest upon governmental obligations, the compensation of the President of the United States or the compensation of officers and employees of a State is included, such an item is not excluded in computing net income, even though it may be deducted from gross income. As soon as such items are considered in connection with computation of net income they cease to be excluded.

The fog about this provision raised by the early pamphlet was made denser by the language or lack of language as to this provision in Form No. 1040 for the return of annual net income of individuals, issued by the Internal Revenue Bureau. The instructions accompanying the form utterly exclude all reference to income by way of interest upon governmental obligations or by way of compensation of the President, but in proof that the special provision as to exclusion has not been overlooked, contain the following:

In computing net income there shall be excluded the compensation of all officers and employees of a State or any political subdivision thereof, except when such compensation is paid by the United States Government.

How is the taxable to define for his own guidance the word "excluded" as thus used? Is he to follow the interpretation of the pamphlet and include, if he happens to be a State or municipal officeholder or employee, his compensation as such in the total of his gross income and then subtract the amount of his compensation from the gross income in computing his net income?

The form for the return of the annual net income makes no provision for a statement of such a deduction, either separately or in any aggregate. On the contrary, on page 2 of the form providing for a descriptive statement of the gross income, which "statement must show in the proper spaces the entire amount of gains, profits and the income received by or accrued to the individual from all sources during the year specified on page 1," space 8 is for a statement of "total amount of income derived from any source whatever not specified or entered elsewhere on this page." That gross imperfection in the form for the return is likely to mislead persons having income from the obligations of the United States Government of States and political subdivisions of States or income by way of compensation as officers or employees of States or their political subdivisions who may depend upon the official document of the Internal Revenue Office, into subjecting themselves to illegal taxation by including such income in the total called for by space 8, on page 2, of the form.

In a moment of positive inspiration the Internal Revenue Bureau announced about three months ago that the income from the interest of governmental obligations "is not subject to the income tax." That is a bit of plain English, glowing like a gem serene amid the labyrinthian verbiage of the income tax law and the regulations of the Internal Revenue Bureau. It applies, though, to the whole of the last sentence of paragraph B, of section 2, of the Act of October 3. The incomes mentioned in that sentence are "not subject to the income tax," and, therefore, are to be "excluded," that is to say, are not to be considered in computing the taxable income, according to the plain English of the paragraph. The form for the return of net income of individuals should be revised immediately, so as to make that important fact clear and unmistakable, according that important fact clear and unmistakable.

In the regulations of October 31, 1913, regarding the deduction of the income tax at the source on income other than interest on bonds, etc., of corporations, etc., not only is there a confusion of the provisions as to interest on corporation bonds and as to dividends on the capital stock of corporations, but there is also a negation of a plain provision of the income tax law. That

negation is embodied in the form for the return of the individual income. The law says:

That persons liable for the normal income tax only, on their own account or in behalf of another, shall not be required to make return of the income derived from dividends on the capital stock, or from the net earnings of corporations, joint stock companies or associations, and insurance companies taxable upon their net income.

Nevertheless and notwithstanding, space 11, on page 2 of the form for the statement of the gross income, calls for a statement of "total amount of income derived from dividends on the stock of corporations, joint stock companies, associations, or insurance companies subject to like tax," and space 4, on page 1, provides for a similar statement in claiming the deduction in the case of the normal tax. To be sure, paragraph B of the law mentions such dividends among the deductions allowed in computing net income for the purpose of the normal tax. But the positive statement of the law, that for the normal tax no return of such dividends shall be required, overrides the provision of paragraph B, which is merely one of the manifestations of the general incoherency pervading the law.

Until the courts rule otherwise, a statement of such dividends must be included in the statement of gross income of persons liable to the graduated additional tax where income exceeds \$20,000. But, meanwhile, a form should be provided for return by individuals liable to the normal tax only, and that form, to be right, should instruct that such dividends mentioned are not subject to the tax levied upon the individual, and, therefore, are not to be considered in statement either of gross income or net income.

It is believed that the courts will not sustain the arrangement in the return by which in space 3, on page 1, the net income liable to the additional tax takes no account of the provision in paragraph C of the law for the exemption of \$3000 or \$4000. This arrangement of the form is possibly traceable to the views reflected on pages 13 and 26 of the early pamphlet, which do not harmonize with themselves and are hardly in every particular in accord with the provisions of the law itself. But all the provisions of the law bearing upon this point indicate that the taxable income, for purposes either of the normal tax or of the additional tax, is the net income minus the specific exemption of paragraph C.

Ruling by the courts on this feature of the return of income will make a great difference one way or another in the aggregate amount of income tax to be paid by persons liable to the additional tax and, consequently, in the amount of revenue to the Government.

Several times in the course of his attempted elucidation of the prodigy credited to him, Congressman Hull slid around plain inquiries by referring to the regulations which the Treasury Department was to formulate. All that happened nine months ago. Now, as late as last Friday, he put forth these remarkable words:

The people should not be too impatient in their effort to apply this law to every intricate business condition in advance of the revised Treasury regulations.

Within less than a month after the passage of the act several thousand persons and corporations were compelled to apply this law, both to simple and to intricate business conditions, in which application they were hardly facilitated by the varying regulations of the Treasury Department by way of the Internal Revenue Bureau. There is no record of anybody's having been impatient to apply the law. But there is every sort of a record of men and women having been anxious, in the face of impossibilities, to meet the requirements of the law.

Within less than a month from today every person liable to the income tax must file his return of his income with the local collector of internal revenue. In the light of performances by the Internal Revenue Bureau justifying a belief that there may be eleventh-hour revisions of the regulations already put forth, wise ones are postponing to the latest possible moment the filing of their income returns. They are not at all impatient, for many of them feel confident that the remarkable manifestations in the federal income tax law will be eliminated by the courts acquainted with fundamental principles of law and regardful of equity.

The Auto Transportation Co. of Charleston, S. C., has been commissioned with \$500 capital. Santo Sottile and James Sottile are the petitioners.

OPTIMISTIC FOR THE SOUTH.

Analysis of Conditions Studied on a Four Weeks' Trip.

A. O. Krieger, representing the Whisman Agricultural Co. of St. Louis, writes to the **MANUFACTURERS RECORD**:

"On a trip on which I started four weeks ago, and which brought me to the principal cities of Tennessee, Alabama, Georgia, Mississippi, Louisiana and Texas, I had the good fortune to meet many, if not all, the leading machinery dealers—men which, by the nature of their business, may be considered in very close touch with the general business conditions in their respective territories, and, in my opinion, are at least as well qualified to speak of the industrial, agricultural and trade situation surrounding them as the bankers in their communities, who in late years have become accustomed to shifting the burden of analyzing the general business outlook to the stock-quotation-making factors in Wall Street. When I make the latter assertion I do not wish you to think that I deny or underestimate the vast economic importance of the leading stock markets, but from what I have seen and heard and learned in close touch with the leading men of the South, this wonderful portion of the United States has the least occasion to feel discouraged or afraid of the future.

"Having analyzed and reanalyzed the statements made to me, having checked and rechecked my own conclusions, and well remembering that there were factors in the world's financial situation commanding conservation, I still do not hesitate to say that the South is standing on the threshold of the most stupendous industrial expansion the world has ever witnessed in magnitude.

"I am not a Southerner, nor did I fall in love with a Southern lady on this trip, nor do I wish to speak, at this time at least, of the splendid human and social sides of the Southern people, but the optimistic feeling which fills my breast is based absolutely only on observations made with the eyes of a plain business man, who, by a 25 years' business experience with very nearly all business sections of Europe and America, is well aware of the necessity for boundaries in enthusiasm, but without having lost the faith in progress and advancement. If any other factor than pure commercial views enter into my conclusions, it is perhaps the one that the brilliant sun and the pure aromatic atmosphere of the South has taken the "grouch" out of me which men usually acquire at this time of the year behind office desks and from the after-effects of social functions, especially in the colder climates. I have found very few people in the South nursing a grouch.

"Those men I had the pleasure of meeting and conversing with on the business situation of the South were invariably healthy, well balanced, highly educated and very human men, eminently the products of, climatically, the most favored portion of this earth's civilized settlements, and fully conscious of the commercial and industrial possibilities right in front of them. In no other parts of the United States—and I have visited during the last two or three months of 1913 the East, the West and the North—have I noticed such courageous spirit of cheerfulness in face of obviously general retrenchment in banking and business operations, as I witness here in the South. Smilingly your business men of the South admit that there has been and, to some extent, is yet a slower than normal speed in the general business machinery; smilingly, however, they express an absolute confidence in the future, not only of their immediate fields of activity, but the whole country. While as good business men they realize that the South cannot escape the influences of adverse conditions and developments of the East, West or the North, of Europe or other civilized countries, they very justly feel that their own affairs are clear; that they are not and were not and probably will not be a disturbing factor in a new era of world-wide prosperity.

"In fact, I feel even stronger of this point than many Southern men I have talked to. I believe that the next great world upward movement in industrial advancement will start—perhaps has started already—and get its momentum on the northern and western coast of the Gulf of Mexico, where your great merchants, manufacturers and bankers of Alabama, Louisiana and Texas are fully cognizant of the gigantic resources of their and their Southern sister States, of the almost uncomprehensible possibilities which the opening of the Panama Canal will soon, and the improvements of the Mississippi River waterways will within reasonable time, bring to the commercial and industrial advancement of

the South, of the opening up of Mexico's treasures to the enterprise of Mobile's and New Orleans' and Galveston's shipping interests and of the commercial entente with South America, which almost every day takes ever-increasing tangible form.

"In the Gulf of Mexico, and, logically, on its industrially most advanced shores the eyes of the world's commercial world will be centered and the energy of the civilized human race will be concentrated.

"Can the South feel any other way but enthusiastic of her future?"

FOR STEEL BARGE SERVICE.

Plans for Transportation on the Altamaha River System in Georgia.

[Special Correspondence Manufacturers Record.]

Macon, Ga., February 2:

Since Mr. W. E. Dunwoody became president of the Chamber of Commerce of this city he has been convinced of the advisability of operating a boat line on the river between Macon and Brunswick. Through his persistent effort the City Council several days ago gave it its financial support by providing for an expenditure of \$50,000 annually in improving the water front of the city. This action was taken on account of the adoption of a report of the finance committee, to whom had been referred the recommendation of a special committee. At this special meeting the entire river navigation proposition was explained by members of the Chamber of Commerce. A plan for navigating the Ocmulgee and the Altamaha rivers from Macon to Brunswick with large steamboats with safety and dispatch was deemed impracticable on account of the numerous sand shoals and other temporary obstructions. The president of the Chamber, with his committees, began making investigations as to the advisability of navigation with high power river towboats. After consulting naval experts and making a full and thorough investigation in sections offering the year round no greater opportunities than the Ocmulgee, the transportation committee reported favorably on the latter proposition to the Chamber of Commerce.

It is the intention of the citizens of Macon to raise \$100,000 and organize a navigation corporation. It is probably news to many to know that the city of Macon owns nearly one mile of river front at Macon on the west side of the Ocmulgee river, and, in addition, valuable lands abutting for the whole distance. An experiment was recently made with a view to ascertaining the exact condition of the river from Macon to Hawkinsville, a distance of 42 miles. A 60-foot boat, formerly propelled by steam, was installed with a 30-horse-power stationary gasoline engine and drawing 26 inches with six tons of freight, and this distance was made in 7½ hours. When this test was made, the river was two-tenths below low-water mark at Macon, but it was found that four feet of water for the entire distance permitted navigation safely. Therefore, it is about definitely regarded that navigation can be continued without any interruption on these rivers during the entire year.

It is the intention of the navigation company to have built steel power boats and barges. The power boat will be so built as to avoid all danger possible on account of its steel hull and deck and, probably, steel compartments. It is not the intention at this time to provide for passenger travel, but the boats will be used exclusively for freight. These steel barges will be fire and weather proof, and will be towed between points navigated. The maximum tonnage determined as possible to handle with six miles per hour speed upstream will be approximately 100 tons. It was ascertained that the cost for these steel power boats will be about \$10,000 each. The barges, however, being constructed in a more simple manner, will cost about \$4,000.

Enough business has already been promised by the business men to keep four boats busy the year round. It is the intention of President Dunwoody to have a committee represent Macon at a conference with the appropriation committee of Congress, when the claims of this city will be heard for a larger annual appropriation by the Government for work on the Altamaha system of rivers.

From the actual work being put into this enterprise and with the substantial character of the men who are taking it up, it looks like there will be no doubt as to the final outcome, and Macon will be provided with a boat line which will be a splendid adjunct to its railroad facilities and which will no doubt help it to develop its

great possibilities. This line could in no way be construed as an injury to the railroad interests or the city, but would doubtless be of great help, as it would open up different avenues of business which have been dormant for some years.

I. S. FIELD.

IMPORTANT RIVER STUDIES.

Drainage Systems of South Atlantic Coast.

The surface-water supply of the South Atlantic coast and the eastern part of the Gulf of Mexico is considered and discussed in detail in Part II of a series of Government reports entitled "Surface-Water Supply of the United States, 1911." This paper is published by the United States Geological Survey as Water-Supply Paper 302.

The results of investigations reported in the paper were compiled by M. R. Hall and C. H. Pierce. Practically all the important river basins of the Southeastern States are considered and daily gauge heights and discharges covering the year 1911 are given.

Determinations of rates of water flow are of importance in leading to the most complete utilization of the power of a stream. At any reasonable valuation per horse-power the undeveloped power of these streams is an important industrial asset. In Georgia and the Carolinas more than 100,000 horse-power has been developed and is being used by the cotton mills alone, and public-service corporations in these three States are today developing 300,000 to 400,000 additional horse-power to turn the hundreds of mills and light the many towns and cities in the region. In the operation of the power plants already constructed and in the financing and building of those yet to be developed the problem of water flow is an important factor.

Projects for providing water for domestic supply, for irrigation and for generation of power for factories cannot be designed intelligently without a knowledge of the flow and the behavior of the rivers from which the supply is to be derived.

Among the river basins considered are those of the James, Yadkin, Santee, Savannah, Altamaha, Apalachicola, Choctawhatchee, Mobile and Pearl, with their most important tributaries.

A copy of this report can be obtained free upon application to the Director of the Geological Survey, Washington, D. C.

North Carolina Drainage.

John K. Goodman of Mt. Ulla, N. C., writing to the **MANUFACTURERS RECORD** regarding drainage plans for Rowan county, says:

"Steps have been taken for the formation of drainage districts, the largest of which is to embrace Second Creek and its tributaries, Kerr Creek, Sills Creek, Back Creek and Withrow's Creek. A meeting has been called for February 6 at Salisbury of all persons who own lands on these creeks or live near them, at which it is expected the matter will be definitely determined. A new era would dawn upon our Piedmont country, with good roads, dredge streams, rolling, hilly lands devoted to timber, small grains, grasses and stock, and with the plow and hoe clean culture confined more to our valleys and smoother-lying lands."

A \$500,000 Veneer Barrel Company.

A plant with a daily capacity of 40,000 veneer barrels and employing from 400 to 600 men will be built at Little Rock by a \$500,000 company. This is the Sanitary Veneer & Barrel Co., which has been organized by Little Rock investors combining with Homer J. Cutsinger of Indianapolis. Officers have been elected as follows: Mr. Cutsinger, president; W. M. Kavanaugh, vice-president and treasurer; W. D. Carmack, secretary; both of Little Rock.

The Delburg Cotton Mill Co. and the Linden Manufacturing Co., both of Davidson, N. C., are planning increases of capital to erect additional buildings and install new machinery.

Two vessels cleared from Pensacola one day last week with cargoes aggregating 2,383,000 feet of yellow-pine lumber.

Turpentine by Pritchard Process.

During the next 10 days the National Wood Products Co., Wilmington, N. C., will begin operating its plant equipped with the machinery and process invented by T. W. Pritchard. This company organized with a capitalization of \$150,000 and the following officers: H. M. Chase, president; Louis Stein, vice-president; P. P. Causey, secretary-treasurer. Referring to the plant and the Pritchard process, the *Wilmington Star* says:

"The distinguishing feature of the new process is the extraction of turpentine from lightwood. Heretofore it has been possible to get pure turpentine only from the sap of standing pines. A process based on the equipment used in extracting wood alcohol from hardwoods has been operated in this section, but never with much success for the reason that the turpentine was not pure. The temperature with the new invention is kept absolutely uniform by using heated oil, so that the wood can be kept at a certain temperature until the turpentine is extracted and then raised to a higher temperature for the extraction of the creosote oils, wood alcohol and acetic acid. Under the old process it has never been possible to keep the heat at a uniform temperature, and consequently the different products in their gaseous state would mix. The oil is heated in the new plant in two furnaces and then pumped by means of two large gasoline engines into two large retorts. The pipes through which the oil circulates are coiled in circular form throughout the interior of the retorts. These pipes are so arranged that the oil passes for only a short distance through the pipes of the furnace. By this means it does not have time to cool before it passes out and back to the furnace to be heated again. Each retort is large enough to hold three cords of wood, which is run into the retorts by means of small cars. It is gradually heated until it reaches the proper temperature for the extraction of the different wood products, the highest temperature being 650 degrees Fahrenheit. The charcoal is then rolled out in the cars. The turpentine and other products pass out from the top through pipes and are conveyed to coils of pipe in tanks surrounded by water, where they are reduced to liquid form. For the refining of the various products a 160-horse-power boiler has been installed to provide the steam. The turpentine which is extracted is distilled of impurities in a separate building by means of steam. The creosote oils are also refined. They are then conveyed to tanks to be kept until shipped."

To Manufacture Window Glass.

A \$75,000 plant for manufacturing window glass will be built at Mannington, W. Va., by the Mannington Window Glass Co., controlled by Ohio glass manufacturers. This plant will include the following: Tank building, 196x174 feet; flattening-house, 174x154 feet; warehouse, 80x150 feet; machine shop and boxing plant, 50x80 feet; tank building to be of structural steel covered with corrugated iron; tank to be 20x80 feet, and have glass plant 5 feet deep, with a capacity of 750 tons of molten glass.

The Cotton Movement.

In his report for January 30 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 152 days of the present season was 11,512,959 bales, an increase over the same period last year of 587,269 bales. The exports were 6,177,669 bales, an increase of 22,481 bales. The takings were, by Northern spinners, 1,705,179 bales, a decrease of 92,106 bales; by Southern spinners, 2,013,181 bales, an increase of 309,670 bales.

-Want Bids on Dredging.

C. G. Fisher, care of Alton Beach Realty Co., 210 12th street, Miami, Fla., writes to the MANUFACTURERS RECORD as follows:

"In addition to the three-and-one-half-mile yard fill which is now being completed across the bay, we want bidders on an additional yard contract on the same general territory. About 100,000 yards of this material is sand easily pumped and the balance is 20-foot cochinea rock. We will be glad to have you give us the names of some of the largest and best dredging

companies in this vicinity who are in a position to figure with us on doing this work."

Kentucky Oil Production.

[Louisville Courier-Journal.]

Kentucky's petroleum output in 1913, according to a report of the United States Geological Survey, was 500,000 barrels, as compared with 484,368 barrels in 1912.

This is a very gratifying showing for the oil industry in Kentucky, especially as the production in all the adjoining oil States showed a material falling off. West Virginia fell off more than 1,000,000 barrels, Illinois nearly 7,000,000 barrels, Ohio nearly 1,000,000 barrels and Indiana about 70,000 barrels. The estimates on the 1913 production of these States are: West Virginia, 11,000,000 barrels; Illinois, 22,000,000; Ohio, 8,000,000, and Indiana, 900,000.

While production in all these States is enormously larger than in Kentucky, it is evident that the industry in Kentucky is enjoying a healthy, normal growth, unaccompanied by any of the spectacular features which sometimes are characteristic of oil development in new fields. Apparently the oil boom in some of the neighboring States is subsiding, while Kentucky, in the absence of a boom, is going quietly ahead, producing oil in the established fields and putting down wells in new districts. While very few "gushers" are being discovered, the drillers are finding a sufficiency of good producers to repay them for their efforts.

The oil field in Kentucky is widening constantly, and the State is making steady progress in production. This gives abundant hope that Kentucky will one day be listed among the most important of the oil-producing States. There is much virgin territory yet to be tested, and some of the older fields are showing good staying qualities.

An Open Gate to Prosperity.

With an attractive frontispiece embodying the idea of its title, "The Gate Is Always Open to the Prosperous Southeast," an exceedingly practical booklet is being circulated from the European office in London, England, of the land and industrial department of the Southern Railway. The text of the booklet is arranged to give terse and accurate information about virtually every subject in which a thrifty and progressive home-seeker would possibly be interested, such as climate, land values, diversity of crops, dairying, livestock, poultry, market gardening, etc., with the suggestion that detailed information will be freely given. The establishment of European agency of the Southern Railway is a token of its desire to attract to the South the European settler, whether farmer or manufacturer, and from its vantage point in London this agency is capable of rendering valuable service to the South and to European home seekers.

Bids on 64 Miles of Roads.

The St. Johns County Commissioners, St. Augustine, Fla., invite proposals until February 24 (not February 22, as stated last week) for constructing 64 miles of roads.

Manager Chester I. Campbell announces that the exhibits in the fourth National Textile Exhibition, to be held in the Mechanics' Building at Boston in April, will not be confined to any one particular branch of the industry.

The aggregate capital of factories in operation last year in North Carolina was \$83,153,896, and their output was valued at \$93,910,205. The aggregate payroll was \$13,291,462.

It is reported that the Alabama & New Orleans Transportation Co. is planning to establish a self-propelled steel barge service between New Orleans and St. Louis.

The Maryland Steel Co. at Sparrows Point was the lowest bidder on two 12,000-ton colliers for the Isthmian Canal Commission to cost something more than \$1,900,000.

GOOD ROADS**WEEK'S HIGHWAY RECORD.****Progress in Southern Road and Street Improvement.**

[Further details of highway undertakings and bond issues mentioned below are given under the headings Construction Department and New Securities, published elsewhere in this issue.]

Bonds Voted.

Hempstead, Tex.—Huntsville Precinct of Waller county voted \$150,000 bonds to construct roads.

Pecos, Tex.—Reeves County Road District No. 1 voted \$100,000 bonds for road construction and maintenance.

Bonds to Be Voted.

Cameron, Tex.—Road District No. 6 in Milam county votes February 21 on \$100,000 bonds to construct roads.

Gatesville, Tex.—Coryell county votes February 14 on \$75,000 bonds to construct roads in District No. 1.

Kaufman, Tex.—Terrell and Forney districts of Kaufman county vote February 24 on \$300,000 bonds for road construction.

Lovingsston, Va.—Nelson county votes April 1 on \$35,000 bonds to construct roads.

Parkersburg, W. Va.—Williams District of Wood county votes March 10 on \$7000 bonds for road construction.

Wharton, Tex.—Wharton county votes March 5 on \$100,000 bonds for road construction, etc.

Contracts Awarded.

Baltimore, Md.—City awarded \$72,857.50 paving contract.

Bartow, Fla.—City awarded contract for 75,000 square yards asphaltic concrete paving; amount available, \$130,000.

Catonsville, Md.—Town awarded contract for 600 feet concrete sidewalk.

Charlotte, N. C.—City awarded contracts for 27,000 square yards cement sidewalk paving, etc.

Chattanooga, Tenn.—Hamilton county awarded \$23,296.80 paving contract.

Houston, Tex.—City awarded \$178,257 paving contracts.

Independence, Mo.—Jackson county awarded \$81,180 contract to macadamize Blue Ridge Boulevard.

Kansas City, Mo.—Jackson county awarded \$25,691 contract for road construction.

Lafayette, La.—City is reported to have let contract for 24 miles of cement sidewalks.

Montgomery, Ala.—City awarded \$34,249 paving contract.

Morgan, La.—City awarded \$32,047 contract for 29,032 square yards cement sidewalks and 785 feet of curbing.

Ponchatoula, La.—City awarded contract for five miles of cement sidewalks.

St. Louis, Mo.—City awarded \$105,239 contracts for street improvements.

St. Mary's City, Md.—Wm. P. McDonald Construction Co. of Mt. Vernon, N. Y., has \$37,361 contract to pave 5.38 miles of road.

Ville Platte, La.—City awarded \$12,000 contract to lay 9000 linear feet of concrete sidewalk and curb.

Contracts to Be Awarded.

Annapolis, Md.—Anne Arundel county receives bids until February 17 to build one mile of State highway.

Baltimore, Md.—State Roads Commission asks bids until February 17 to build four sections of State highway, about 13.44 miles.

Bradentown, Fla.—City will construct paving, for which \$100,000 is available.

Cotton Plant, Ark.—Cotton Plant Improvement District No. 1 will construct about 10 miles of concrete sidewalk.

Graham, N. C.—Town will pave streets and sidewalks; issued \$50,000 bonds.

Greenville, Tenn.—Greene county asks bids until February 24 to grade about 130 miles of road.

Little Rock, Ark.—City receives bids until February

17 to construct 18,000 square yards pavement, including necessary grading, curbing, guttering, etc.

Marianna, Fla.—Jackson county receives bids until February 21 to construct 45 miles of hard-surfaced roads.

Midville, Ga.—Town will improve sidewalks and streets at cost of \$2000.

Oxford, N. C.—Town will improve streets and construct sidewalks; issued \$10,000 of bonds.

Palmer, Tex.—Town will pave streets in business section, expending \$12,000.

Tampa, Fla.—City received bids until February 3 to construct 3800 square feet sidewalks, etc.

Tyler, Tex.—Lindale District of Smith county will construct roads; issued \$75,000 bonds.

Good Roads for Kentucky.

It is estimated that 6200 miles of improved highways will have to be built to connect all the county-seats of Kentucky, and that the total cost of construction would be \$24,800,000, or \$2,480,000 a year for 10 years. These figures are cited by the *Times* of Louisville, Ky., in advocacy of an act for State aid in highway construction, in the fight for which Speaker Claude B. Terrell of the State House of Representatives is leading. Commenting upon the plan, the *Times* says:

"For the 6200 miles of good roads which eventually will unite the county-seats of the Commonwealth in a coherent and responsive whole as the nerves co-ordinate the functions of the various members of the human body, there will be required \$2,366,000 yearly for 11 years. As the rate of \$4000 per mile for the roads as proposed to be built, this would give the State over 591 miles per year average—something very tangible for the people to regard while impatiently looking forward to that glad day when the entire 6200 will be available for the public use and benefit. What vistas of new thoughts and new opportunities these highways would open up can be left safely to the imaginations of the people themselves.

"It is not only in what are commonly considered the isolated places of the State that lack of highways shut in the people and rob them of their right to live and prosper in their pursuit of happiness. In many counties there are sections absolutely inaccessible to wheeled vehicles in rough weather, and, in order to carry this argument to its fullest, it must be told that the wealthy county of Jefferson has some mud paths which would do justice to the poorest of mountain communities. This is true for the very good reason that there are so many communities clamoring for roads and more of them these enlightend days that even the wealthy county of Jefferson cannot keep up with the demand. It is because of all these facts that Speaker Terrell, born and reared in a country community, wants roads for the people of the Commonwealth, and will give thought and labor to cause the construction of good roads through State aid for the enterprise.

"There can be no doubt that one good reason why more Kentucky lowland capital is not invested in the development of Kentucky resources is the fact that especially in the mountains the virgin lands far from railroads are hard to get to, and few are the capitalists of sufficient physical endurance and leisure to spend days prospecting through country which should be intersected by roads, so that the land might realize its value and the people of those lands might pay their taxes and shake off the stigma which must ever cling to those counties which cannot pay their way in the conduct of the affairs of the great Commonwealth of Kentucky.

"It is the truth that there is no nook or corner of the State which is not adapted for the support of human life, and all students of the question are agreed that in all parts of the State the various activities which are now in practice not only will support life, but can contribute something of a surplus to the needs of the world, that surplus representing profit, and profit representing comfortable old age and a chance for the children to better their condition, to live happily and feel at the end that they have not been deprived of anything to which they are entitled. Where no roads exist it frequently has been shown that man will produce no more than his needs, and often will take no great care to produce that much, having little incentive to labor when labor represents no advance, but only toil.

"How many thousands of times has it been said that in the hoarded stocking fund of the peasantry France finds the wherewith to defend her borders or to develop her colonial resources? That is no matter. It is very generally known that the wealth of France is held by

the farmers of France, and those farmers are men to whom 100 acres of land would seem a vast estate. How do they happen to have money? Because they have markets. And markets are impossible without roads. Some experts contend that there are better roads than the roads of France and make great argument upon it. This doesn't make great difference, either. It is sufficient that France is cobwebbed by perfect highways, and what the people produce they can sell, and without any unusual expense or toil. They receive actual money for their product, and they care not that they are taxed for the maintenance of the roads, for without the roads there would be no market, and with no market no money.

"When it is shown what Kentucky's State tax rate is at present and what it would be with State aid for good roads, it seems absurd that there should be any question raised as to the merits of the plan. Kentucky now pays \$5 per thousand in State taxes, and would pay \$5.50 under the proposed system. Not much of an increase. Arkansas pays \$21.70 per thousand in State taxes, and we never hear that the people of Arkansas are thinking of emigrating in order to escape the burden. Washington State requires \$36.39 per thousand, and that State drains from Kentucky a goodly percentage of its immigrants. Kentucky has no bonded debt and is otherwise free from drawbacks to State aid for good roads. In other words, it is stoutly contended by everybody interested that there is no excuse for the existing condition.

"Supporting Speaker Terrell in his work for State aid can be found the entire legislative delegation from Jefferson county, the members of which are absolutely pledged to this principle, and who will continue to labor in its behalf with high hopes of success during the present session of the General Assembly. The cost is comparatively so little and the possibilities for the State so great that no member of the Louisville delegation has given more than a passing thought to the fact that Jefferson county will have to bear a very large share of the burden of taxation. With Speaker Terrell they believe that at such a time, when the basic interests of the Commonwealth are at stake, sectional consideration should be laid completely aside."

Earnest for Roads.

Will H. Evans, president of the Board of Trade of Bonham, Tex., writes to the *MANUFACTURERS RECORD* under date of January 30:

"In the last campaign, which closed last Saturday night, this issue failed by the small margin of 53 votes. The Constitution of Texas requires a two-thirds majority, and, as above stated, we lacked 53 of having that majority. The sentiment is so strongly in favor of road bonds that a meeting was called in 30 minutes after the polls closed and the biggest mass-meeting ever held in this county was held the following Monday night. Another meeting is called for next Monday night, at which time we expect to set the date of our next election, which will be in 35 or 40 days."

"Orient" Line to Be Sold.

A report from Kansas City says that the United States Court there has issued an order for the sale of the Kansas City, Mexico & Orient Railway for not less than \$6,000,000. The date of sale is not yet set, nor is the special master to conduct it named. This price is only if the bondholders' reorganization committee is the buyer; if any other is the purchaser the minimum price is to be higher, probably, it is said, \$10,000,000 or \$12,000,000. The bondholders must assume the preferred claims against the road. J. O. Davidson, one of the receivers, is quoted saying that nothing will be done toward reorganizing the property for perhaps three or four months; the reorganization committee will try to raise \$15,000,000.

Dudley D. Haddock, formerly of the Tampa (Fla.) *Morning Tribune*, has been elected secretary of the Commercial Association of Danville, Va.

The Glenola Cotton Mills, Eufaula, Ala., proposes improvements and repairs for higher grade cloth production.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

NEW PENSACOLA TERMINAL.

Gulf, Florida & Alabama Railway Rapidly Building Piers and Yards.

The Gulf, Florida & Alabama Railway Co. has recently completed at Pensacola the dredging of a channel, turning-basin and slips for the first three piers of its marine terminal, using the material dredged out for the creation of a yard at the inboard end of the piers, this new ground extending from the United States bulkhead line back to the shore. The yard is a solid sand fill, 32 acres in extent and 8 feet above mean low tide. The fill is retained by a creosoted timber bulkhead from the face of which the first pier is already built and in operation. The second pier is under active construction, and the third, comprising a modern elevated coal-dock, will be built in the spring.

Each of the piers will be 1225 feet long, but of varying widths. One will be open, with five tracks for the handling of lumber and other non-perishable commodities; the one now building is a wide, shedded pier for the handling of cotton and general shipments of perishable goods, and the third, as before mentioned, will be a coal-dock, in size and capacity capable of rapidly loading either bunker or cargo coal into the largest ships. The slips for these three docks are now dredged to provide a minimum depth of 30 feet of water at mean low tide.

The 32 acres of reclaimed land behind the pier are being rapidly developed by the building of storage and terminal yard facilities thereon, with suitable buildings for general warehouse purposes. The work is being prosecuted so as to time its completion with that of the necessary 50-mile extension to the company's main line, now building, which will give its connection with the Mobile & Birmingham branch of the Southern Railway near Pine Hill, Ala., all of which is expected to be finished by the fall of this year.

G. A. Berry, vice-president and general manager, has charge of the work.

DALLAS NORTHWESTERN.

Plans for an Electric Railway Which May Finally Reach Wichita Falls.

Dallas, a center of interurban railway lines in the northern part of Texas, is to have another important electric high-speed railroad before long if the plans of the Dallas Northwestern Traction Co., just chartered, are fulfilled. Its purpose is to build from Dallas northwest to Denton, about 30 miles, and from there on to Krum, 7 miles farther in the same direction. It is planned to finally reach Wichita Falls, about 125 miles northwest of Dallas. Franchises have been obtained in Dallas and Denton counties for the first section. The company will, according to a report quoting officers, immediately take steps to market bonds for construction purposes. Meanwhile estimates as to what the road will cost are being prepared. It is expected to raise money for the preliminary work through sales of preferred stock. The first surveys have been made as far as Denton.

E. P. Turner of Dallas, whose name heads the list of incorporators, is reported as saying that the company will establish an industrial department to secure settlers along the route, particularly Germans, Swedes and Bohemians.

Among those interested in the plans as incorporators are Ben B. Cain, L. S. Thorne, John T. Witt, E. L. Sargent, R. Fenby, Otto H. Lang, S. P. Cochran and others of Dallas, besides residents of Denton and other points.

PENNSYLVANIA'S YEAR.

Gross Earnings More Than \$390,000,000, But Heavy Expenses Pull Down Net.

The financial statement of the Pennsylvania Railroad system for the year 1913 has just been issued, showing that the total operating revenues for the twelvemonth

were \$390,626,308, an increase of \$17,800,832 as compared with 1912. Nevertheless, net earnings were but \$71,231,184, a decrease of \$11,222,972, this because of the great advance in total operating expenses, which were \$311,395,124, an increase of \$29,023,805. This huge addition to the cost of conducting business was principally due, it is said, to increases in wages and taxes, although the repairs of flood damage last spring were responsible (according to previous estimates of the loss) for about \$3,000,000 or \$3,500,000 of this. The decrease in net on the Eastern lines of the system was \$3,200,316, and on the lines West \$8,022,655. It will be remembered that the heavy loss from floods was in Ohio.

On the Eastern lines the total operating revenue was \$261,109,510, increase \$13,284,404; total operating expenses \$211,172,076, increase \$16,484,721; railway operating income \$49,937,433, decrease \$3,200,316.

On the Western lines the total operating revenue was \$129,516,798, increase \$4,516,428; total operating expenses \$108,223,047, increase \$12,539,084; railway operating income \$21,293,750, decrease \$8,022,655.

On the Pennsylvania Railroad proper, chief of the system's Eastern lines, the total operating revenues were \$185,400,825, increase \$10,793,227, but the expenses increased \$11,547,354, so that there was a decrease of \$1,510,650 in net, including auxiliary operations. The expenses included increases as follows: Maintenance of way and structures, \$3,014,116; maintenance of equipment, \$2,764,811; traffic, \$301,610; transportation, \$5,047,715, and general expenses \$221,202.

New Equipment, Etc.

Chesapeake & Ohio Railway, according to a report from Richmond, has ordered 14 Mallet locomotives from the American Locomotive Co., and is about to order 6 locomotives of the Pacific type. It is further said that these engines will be built at the Richmond plant, which will resume operations.

Hocking Valley Railway is also expected to place an order with the American Locomotive Co. for execution at the Richmond works. This will be for 6 freight locomotives. The road has ordered 1000 flat-bottom steel coal cars from the American Car & Foundry Co. at Hinton, W. Va.

Washington Southern has ordered 2 heavy switching locomotives from the American Locomotive Co.

Chesapeake & Ohio Railway has ordered 1000 steel coal cars to be built by the Standard Steel Car Co. and 1000 of the same sort from the Pressed Steel Car Co., Pittsburgh. The road is receiving deliveries on orders for 2000 gondolas of 75 tons and 1000 of 57½ tons capacity.

Richmond, Fredericksburg & Potomac Railroad has ordered, says a report, 15 steel ballast cars from the Rodger Ballast Car Co., Detroit, Mich.

Wabash Railroad is reported in the market for 60 locomotives, of which 50 are Mikados and 10 Pacifics.

Pennsylvania Railroad, according to a report from Altoona, has ordered built at its shops there 34 Atlantic type locomotives, 1000 box cars and 50 all-steel passenger cars.

Atlanta, Birmingham & Atlantic Railway will, it is reported, buy 1250 tons of rails.

Norfolk Southern has filed an equipment lease covering 6 passenger cars, 3 combination mail and baggage cars, 300 box cars, 160 flat cars and 6 cabooses.

St. Louis Southwestern Railway has bought from the General Electric Co., Schenectady, N. Y., 8 gas-electric motor cars 70 feet long over all. Each seats 62 passengers, and each has a baggage compartment, besides compartments for white and colored passengers. They will be used on branches in Arkansas, Louisiana and Texas.

Virginian Railway is reported in the market for 1000 cars.

Cumberland Valley Railroad is reported getting prices on 500 tons of bridge steel.

St. Louis Southwestern, according to a report from St. Louis, where its headquarters are located, is in the market for 205 cars of various types.

Beaver Railroad & Construction Co., Beaver, Okla., will buy locomotive, cars, rails and other material. L. L. Shaw is president.

Holly Shelter Land Co., Woodside, N. C., and Frost-Johnson Lumber Co., Campi, La., have each ordered a locomotive from the Baldwin Locomotive Co., according to a report from Philadelphia.

Important Bridge at Freeport.

[Special Correspondence Manufacturers Record.]

Freeport, Tex., January 24.

Preliminary surveys for the purpose of determining the best and most desirable location for the combination railroad and county bridge to be built across the Brazos River by the Houston & Brazos Valley Railroad and Brazoria county, connecting Velasco and Freeport, were started this week. The field work is being done by E. L. Martin, supervisor of maintenance of way, and J. E. Thornton, office engineer from the Missouri, Kansas & Texas Railway Co.'s offices in Dallas, and J. C. Tolman of the Tolman Engineering Co. of Houston, acting for the Brazoria County Commissioners' Court. It is evident from the promptness with which these surveys have been started that it is the intent of the Missouri, Kansas & Texas, which operates the Houston & Brazos Valley, and the county to push the construction of this bridge and if possible complete it before the close of 1914 or early in 1915. The Brazoria County Commissioners voted to join with the railroad company in the building of the bridge at their January meeting.

Among the work already done by the surveying party is the taking of soundings for the center pier foundation. The borings show that a splendid clay formation capable of sustaining a very heavy pier and comparatively easy of access exists under the bed of the river. The surveys so far made also indicate that no difficult engineering problems are to be encountered either in the bridge construction of its approaches.

After rough estimates, it is believed that the cost of the bridge will be at least \$120,000, and it may exceed that figure by several thousand dollars. It will be of steel, with a 125-foot draw, and so constructed as to accommodate both railroad, wagon and pedestrian traffic.

Stone & Webster Properties.

Stone & Webster, 147 Milk street, Boston, have issued their "Electric Railway, Electric Lighting, Gas and Water-Power Properties Manual" for 1914, and the following is a combined statement of the various companies under their management for 1913: Capitalization—Bonds and coupon notes outstanding, \$86,512,100; preferred stocks outstanding, \$38,092,100; capital and common stocks outstanding, \$61,911,200; total, \$186,515,400. Earnings and expenses, 1913—Gross earnings, \$26,688,521; operating expenses and taxes, \$15,583,757; net earnings, \$11,104,764; income from other sources, \$93,071; total, \$11,197,835; balance after interest charges, \$6,765,731, out of which there was set aside for bond sinking and mortgage improvement funds \$570,391, leaving a balance of \$6,195,340, out of which dividends were paid, leaving a balance for reserves and depreciation of \$2,010,863.

The capacity of the properties is revealed by the following: Miles of equivalent single track owned, 1299; passengers carried, including transfers, 341,255,000; total connected electric lighting load, equivalent to 16 candle-power lamps, 2,414,820; total commercial power load, 179,880 horse-power; total combined station capacity 289,640 horse-power, of which water-power is 109,500 horse-power; total gas output, 1,754,158,300 cubic feet.

Railroad Official Changes.

Morton Riddle, general superintendent for the Atlantic Coast Line at Jacksonville, Fla., has been appointed general manager of the Florida East Coast Railway, according to published announcement there, and will take charge of his new duties February 10. J. N. Brand has been appointed by the Atlantic Coast Line to succeed Mr. Riddle; he has been general superintendent at Savannah, and he is in turn succeeded by R. A. McCranie from Waycross, where he was superintendent, which position is now filled by O. T. Waring, who was until recently engineer of roadway at Savannah. C. J. Chenworth now becomes the engineer of roadway.

J. M. Crute has been appointed assistant general freight and passenger agent of the Ocilla Southern Railroad at Ocilla, Ga.

R. L. Murphy has been appointed tie and timber agent of the Cincinnati, New Orleans & Texas Pacific Railway Co. at Cincinnati.

M. V. Richards, land and industrial agent of the Southern Railway system; C. W. Fitch, agent at Macon, and Chas. Davies, traveling immigration agent

at Jacksonville, have had added to their territory the regions along the Hawkinsville & Florida Southern Railway and the Macon & Birmingham Railway.

Texas & Pacific Reballasting.

According to announcements from the Texas & Pacific Railway Co., two large sand and gravel pits will be opened within the next few days, one in Texas, near Fort Worth, and the other at Natchitoches, La., on the Red River. These will be the source of supply for an unusually large amount of ballasting work in Texas and Louisiana, where approximately \$75,000 will be expended for roadbed improvement. The operating department has prepared a schedule of work trains, and the job will be rushed to early completion.

Beginning at Whitesboro, Tex., on the joint track, there is about 170 miles of roadbed to be ballasted into Texarkana, Ark., on the Trans-Continental division. This will cost about \$30,000.

The Natchitoches branch, about 85 miles between Shreveport, La., and Cypress, La., will be reballasted from a sand pit at Natchitoches. Operations upon a large scale will begin about February 6. An appropriation of about \$45,000 is available for this work.

New Depot for Spartanburg.

A report from Spartanburg, S. C., says it is expected that a new union station will be built there as the result of a visit by officials of the Southern Railway, the Charleston & Western Carolina Railway and the Carolina, Clinchfield & Ohio Railway, who have, it is said, accepted plans proposed by J. T. Odell of New York. These plans, it is further stated, provide for lowering the tracks and the erection of a building of two stories, with waiting-rooms on the upper floor. Magnolia street will be carried over the tracks by a viaduct. Baggage-room, express office and telegraph office will be on the track floor. A proposition to erect a new depot at Spartanburg has been under general consideration for some time, but this, it appears, indicates an intention upon the part of the railroads to take early action toward meeting the wishes of the Chamber of Commerce and others.

Sale of Wabash Ordered.

The United States Court at St. Louis has issued a decree ordering the sale of the Wabash Railroad at public auction, provided that the bond interest in default, amounting to \$4,323,621, is not paid within 20 days. According to a report quoting E. B. Pryor, one of the receivers, this payment cannot be made. The minimum price for the property as set by the court is \$34,000,000. Chester H. Krum of St. Louis is the special master to conduct the sale. The receivership has now lasted a little more than two years. The default is under the first refunding mortgage, for which the Equitable Trust Co. of New York is trustee, and one of its representatives is reported saying that no reorganization plan has yet been prepared. There are several other mortgages ahead of the refunding bonds, and the road will be sold, of course, subject to their liens.

\$1,148,000 to Be Spent.

The Birmingham Railway, Light & Power Co., Birmingham, Ala., will spend for improvements and extensions this year \$1,148,000, of which it is officially announced \$440,000 will be devoted to the gas plant extensions, while \$537,000 will be expended on extensions and equipment for the railway and light department. The rest will be used in other departments.

Railway extensions planned are from Vinemont to Fairfield and from Boyles to Dolcito. Some of the present lines are to have a second track laid on them, thus making them double-tracked. Considerable work is also to be done to provide to receive current from the Alabama Power Co., for which contract is to be made.

President A. H. Ford submitted the plans to the officials of the controlling company, which approved them.

The navy-yard at Charleston, S. C., is to build two standard steel coal barges to cost about \$40,000.

FOREIGN NEEDS

Machinery and equipment wanted abroad are mentioned in many letters received by the MANUFACTURERS RECORD, which is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. For the benefit of our subscribers seeking foreign trade we publish the following extracts from recent letters:

Wanted for Belgium Trade.

Victor Jacques, civil engineer, Avenue Louise 521, Brussels, Belgium, writes to the MANUFACTURERS RECORD as follows:

"The line of goods that we desire here in Brussels are materials and equipments of all kinds for street railways, telephone and telegraphic supplies, furniture and equipments for postal stations, incombustible electric wires, dry electrical batteries. For all goods in the above lines orders in future are likely to be very important. I hope that you will do me the favor of getting the proposals, information, catalogues and discount sheets, with cash and time prices, as soon as possible. If in your power I would like to get three copies of each catalogue. In relation to the above important matter, I would say that for any goods placed in our hands we would like to have the exclusive agency and a monopoly of the sale for all Belgium. I can send you the very best of references, among others the endorsement of the Government, whose engineer I am."

Sisal Fiber Machinery.

E. S. Parsons & Co., Grand Cayman, West Indies, write to the MANUFACTURERS RECORD as follows:

"There is a party in this island who owns a large quantity of sisal plants, some of which will be ready for cutting in a short time. Experts from Yucatan and other places in which this plant has already been developed to a large commercial extent claim that the growth in this island equals anything they have ever seen. The Government is prepared to co-operate with the planters here in regard to putting in a very large acreage as soon as it can be determined that the cultivation can be carried on so as to yield a fair margin of profit to those engaged in this pursuit. The drawback at present is that the people are not sufficiently familiar with just the sort of machinery which is required to manufacture the sisal into fiber, and we would deem it a great favor if you would furnish us with the names of manufacturers in the United States who make this class of machinery."

Opportunities in Hungary.

Tolnai Ervin, Izabella-utca, 66, Budapest, Hungary, writes to the MANUFACTURERS RECORD as follows:

"I am ready to act in the interest of the American industry. Should any firms wish to offer machines and apparatus, I am ready to represent them. Let me have thorough information, two samples of catalogues with prices and discounts; also weight and measure of offered goods f. o. b. New York or c. i. f. Fiume. I am ready to represent firms who wish to participate with machines, apparatus, etc., and will only ask for this understanding a very moderate honorarium or the regular discount." The machinery referred to comprises the following: Fruit conserving and electric (dynamo manufacturing) machinery; gunpowder mill equipment; farming implements; machinery for production of nitrates and other chemical products, utilizing natural gas.

Cotton Oil, Flour and Lard.

Bianchi & Cauchi, Malta, write to the MANUFACTURERS RECORD as follows:

"We shall thank you if you could be the means of our establishing business connections with United States firms manufacturing or exporting the following goods: Lard in pails of 28 pounds each; cottonseed oils (edible); flour in cotton bags of 112 pounds each, and who would be willing to appoint us their exclusive buying agents for the Maltese Islands. We shall be pleased to receive at any time lowest quotations and samples of above commodities. We may point out to you that quotations must always be given in English currency and c. i. f. Malta, this last being indispensable. We do

not think American manufacturers or exporters would find it difficult to quote us prices c. i. f. Malta, as any shipping agency in the States would be only too glad to supply the necessary information. For their guidance we have to say that steamship companies shipping goods in the States for Malta at through rate via German ports or via Trieste (Austria) offer many more facilities and advantages than the steamship companies which ship goods at through rate via Liverpool."

To Establish Engineering Firm.

A. Henry Pikler, M. E., Montclair, N. J., writes to the MANUFACTURERS RECORD as follows:

"I beg to give you my plans as to establishing myself as representative of American manufacturers in Austria-Hungary and Balkan States. I intend to establish a consulting engineering firm in Budapest for developing and financing utilities, giving technical advice, designing plants, etc. In connection with this, especially due to my 11 years' experience in the United States as an engineer connected with large manufacturing interests, I wish to import such American products which may either be termed as an American specialty or which have a market in the countries named above. Although in first line I have in mind machinery, implements and apparatus, I would also very seriously consider processes, methods, systems used in the various industries and agriculture. I do not limit myself to any particular line of machinery as long as it fulfills the requirements pointed out. I intend to interest large commercial houses, not the retail trade, by calls, correspondence and advertising. My record and references are filed with the National Association of Manufacturers."

TEXTILES

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

Will Add 10,000 Spindles.

The Patterson Manufacturing Co., Kannapolis, N. C., has awarded contract to T. C. Thompson & Bros. of Charlotte and Birmingham for the erection of its additional building mentioned last week. This new structure will be two stories high and 240 feet long by 78 feet wide. It will be equipped with 10,000 spindles and accompanying machinery, largely increasing present capacity. The company now operates 21,120 ring spindles, 400 broad looms, 44 cards, etc., by electric power, employing 225 operatives, on the production of brown shirting.

Textile Notes.

George Dunham, Starks Building, Louisville, Ky., plans the organization of a company to build a woolen mill.

The Fitzgerald (Ga.) Cotton Mills' additional building, recently noted, is nearing completion, and E. F. Pope is the contractor. It will be 200x400 feet. The company has purchased 100 additional looms, and its new machinery will cost about \$50,000.

MINING

Deepwater Coal & Coke Co.

The Deepwater Coal & Coke Co., referred to last week, has incorporated with \$10,000,000 capital stock, and H. F. Allen of Pittsburgh is president. It has purchased about 210,000 acres of coal land in Western Kentucky, including 18 mines in and around Henderson. Main offices are at Evansville, Ind., and shipping offices at Henderson, which will be the loading point for coal. This company is negotiating for 3000 feet of river frontage on which to build extensive coal storage facilities and tipples for loading coal on barges to be towed to New Orleans.

To Extend Winona Coal Developments.

Extensive betterments to increase capacity and provide for additional production are planned by the Winona Coal & Coke Co. of Coffman, W. Va. These improvements are to include the construction of 60 coke ovens and the opening of another mine to be equipped with the latest modern machinery. The company is developing 1000 acres of coal land, and it recently completed a large power-house, a crushing plant and additional cottages for miners.

Daily Output 3000 Tons of Coal.

The Wolf Valley Coal Co., T. C. Loucks, president, Chicago, will develop 2500 acres of coal land at Rosenvelt, Ky., and plans a daily output of 3000 tons of coal. W. H. Soper is the manager at Rosenvelt, and will receive prices on the machinery required.

MECHANICAL

Illustrations and descriptions having news value pertaining to developments in machinery, mechanical devices and inventions will be considered for use in this department.

G. V. Electric Tractors in Sawmill Service.

A concrete example showing the wide field for the use of electric vehicles is found in the application of specially-constructed G. V. electric tractors in the service of hauling lumber on trailers by the Industrial Lumber Co., Elizabeth, La.

The lumber company's plant is one of the most advanced and complete in the South, having an annual capacity of 200,000,000 feet at its four mills. A large acreage of timber lands are cut over each day to produce this output. Six freight locomotives and 75 flat cars are used in hauling logs to the Elizabeth mills. A large number of hands are employed and a high degree of efficiency is maintained throughout. The by-products are turned to use wherever possible, even the bark and strippings from the logs being shredded and conveyed to turpentine vats, where the turpentine is extracted by the steaming process. General Manager R. M. Hallawell and Electrical Engineer James Hill have made the plant electrical throughout.

In moving the lumber from the kiln to storage sheds and in other hauling operations about the Elizabeth plant, 16 mules and 20 men were formerly required to do the work. In following up its policy for efficiency, the company has put into service the electric tractors as shown in the accompanying illustration, made by the General Vehicle Co., Long Island City, N. Y. Three tractors in all are at present used, and together with six men have taken the place of the 16 mules and 20 men formerly necessary.

The general specifications for the tractors call for the handling of from two to four tons of lumber quickly, which is to be loaded and unloaded easily and yet to be simple in operation and inexpensive from the labor standpoint. Freedom from fire risk was also a consideration. The requirements were met by the General Vehicle Co. by building tractors with a two-ton chassis rating, G. V. lead batteries, wheel base 54 inches, artillery type wheels on Timken bearings, front tires 28x4 inches and rear dual tires 28x3½ inches, G. E. motor 1026-85V.

As will be noted from the illustration, the battery is mounted on the top of the chassis; the controller is at the driver's left hand, and the brake lever is operated by his right foot. The lumber is first loaded on the standard two-wheel lumber dolly and connected to the tractor by backing it under the load. The chain thrown around the lumber is laid around the drum of a standard Sprague hoist, so that when the driver presses a lever on his left the hoist operates the cable which tightens the lumber to the wagon and holds it securely to the rear bolster.

An important saving made by the use of tractors results from prevention of the injury formerly produced by the mules hauling over the lumber tramways. There are about five miles of tramways about the mill, made of three-inch timber. The wearing away of this timber by the mules hauling over it caused an expenditure of

\$25,650 worth of lumber every three years, when it had to be renewed. The use of rubber tires over these tramways will allow an obvious saving.

In making a comparison of costs between the three tractors and six men which have taken the place of 16

differ in the method of attaching to the spindle; in the construction of the bit seats; design of the bit for faster cutting; in the greater strength of the holding bolts, and in the self-centering device which clings to the spindle when drawn up, securing it firmly.

wood of various classes, and their circular outlines maintain uniform shapes and patterns of the finished product. No filing or fitting of the parts is necessary other than that required to sharpen the bits, which requires about the same skill as that of filing a saw.

To match flooring at the rate of 150 to 250 linear feet per minute requires side-heads of strength and balance to withstand the centrifugal strains and the hard knocks incident to matching lumber at fast feeds. The "Shimer Limited" cutter heads are made from solid steel forgings of 60,000 pounds tensile strength, which are shaped under a powerful steam hammer until the grain is further solidified and refined, making tools of remarkable strength. They are carefully balanced and the bits are jointed to insure each of them doing its share of the cutting. They are sent on trial, returnable if not satisfactory. Persons interested are invited by the company to send for a set and to try them on their fastest and most difficult work.

Eagle Two-Wheel Trailer Wagons.

The Eagle Wagon Works of Auburn, N. Y., recently exhibited at the Good Roads Show in Philadelphia a two-wheel trailer, for the transportation of crushed stone or other material, to be hauled behind traction engines or motor tractors. A train of these wagons is shown in the accompanying illustration. It consists of a number of two-wheel wagons so connected that the line is flexible and follows accurately the contour of the road, and at the same time the construction is claimed to be so simple that a 2 or 3-yard wagon can be furnished quite economically and requires only a light and easy draft.



G. V. ELECTRIC TRACTORS HAULING LUMBER.

mules and 20 men, Mr. A. L. Dixon has tabulated the following:

Investment:	Mules.	Tractors.
16 mules at \$225 each.....	\$3,600	.....
20 sets harness at \$25 each.....	500	.....
20 two-wheel dollies with shafts at \$25 each.....	500	.....
3 electric tractors with (G. V.) batteries at \$2900 each.....	.....	\$8,700
Stables, granaries, blacksmith shop, etc.....	3,000	.....
Garage, charging apparatus, etc.....	.....	1,000
Total.....	\$7,600	\$9,700
Fixed charges:		
Interest.....	\$228	\$291
Depreciation.....	1,140	1,020
Fire Insurance.....	100	87
Total fixed charges per year.....	\$1,468	\$1,398
Annual operating costs:		
Renewals of batteries.....	.....	\$867
Renewals of tires.....	.....	600
Renewals of chains, gears, etc.....	.....	375
Feed, shoeing, stable help, etc., at \$20 per month per mule (16 mules).....	\$3,840	.....
Labor at \$1.75 per day.....	10,500	3,600
Repairs to tramways.....	8,550	4,275
Total operating costs per year.....	\$22,890	\$9,717
Total costs per year, including fixed charges.....	\$24,358	\$11,115
Total saving per year by using electric tractors, \$13,243.		

Continuing, Mr. Dixon states that "no current has been figured in the operating costs of the three tractors, as the amount used is not considered of consequence. Assuming that the mill were to buy current from its central station at 4 cents per K. W. H., the cost of same would not average over \$200 per tractor, or \$600 in all. Operating costs of tractors are given over rather than under values, since they include battery, tires, gear and chain renewals each year. The load is towed, not carried, and this should favor tires and other parts which show rapid depreciation in heavy haulage.

"From the above it will be seen how one special application of the electric commercial vehicle has resulted in a substantial saving to the manufacturer. It is well known that the tractor and the trailer combined offer many advantages in present-day trucking, and it is reasonable to expect that many more of these special applications of the electric will rapidly develop."

Developments in Shimer Cutter Heads.

The use of hardwoods in house-finishing and other lines has been growing until now such woods are being worked in practically every section of the country. The fact that these woods take a handsome natural finish and are very serviceable, especially for flooring, has placed them firmly in the popular demand. How to work them economically with the tools at hand has been a serious problem with the woodworker.

To meet this demand and to keep up in the race for supremacy among the makers of fast-feed flooring machines, Samuel J. Shimer & Sons, Milton, Pa., the manufacturers of the Shimer cutter heads, brought out the "Shimer Limited" tools shown in the illustrations, which possess many important features. They are made with four, six, eight or twelve bits to each head to suit the matcher upon which they are to be used, the feed desired and the kind of material to be worked.

In appearance the "Shimer Limited" series of cutter heads resemble the older patterns of these tools, but

The spindle-gripping device is positive and effective in its purpose of holding fast to the spindle, as also in centering the head for a more uniform action of the cutters. This is accomplished by having the central bore of the head tapered and having a rotatable cap

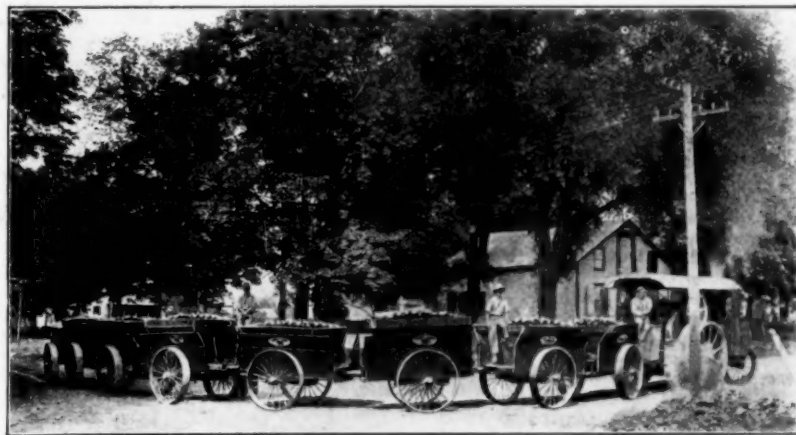


SET OF "SHIMER LIMITED" CUTTER HEADS WITH 8 BITS AND EXPANSION FEATURE.

but fitted in the upper portion. Into this bore a taper collet projects having an upper threaded portion fitting the rotatable nut. When the top nut is drawn up the collet contracts and binds firmly to the spindle. The various parts are made of steel forgings and the collets are hardened and ground true to size.

As compared with other types, the bit seats in these

The body and wheels of these wagons are made of steel. The wheels have tires 8 inches wide, enabling them to carry a load with a minimum of damage to roads and to reduce the tendency of wheels to sink in soft ground. It is provided with roller bearings mounted on steel axles, which produce a durable and easy-running combination.



TRAIN OF EAGLE TWO-WHEEL WAGONS.

heads carry a larger surface, and the bit chambers are of greater depth, to compensate for the new acute angle given to the bits for greater relief to the parts coming in contact with the lumber. The holding bolts have been greatly strengthened by the use of a high-grade steel especially made for the purpose.

All cutting bits are of high-grade tool steel, tempered to file so that they will hold an edge well in working

Several trains of these wagons have been in practical use, and it is stated that the reports regarding the utility, durability and general fitness have all been favorable. Four of the wagons in the train shown are of 3-yard capacity, and four are of 3½-yard capacity. It is stated that the draft is light, owing to the flexibility of the train, the roller bearings of the wheels and the general lightness of the entire outfit.

Construction Department

IN ORDER TO FOLLOW UP

Properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be written on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will generally be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur, as our reports are often published before new companies are known and before they have any established office for the receipt of mail.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped envelope should be enclosed with letter.

In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

DAILY BULLETIN

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year.

All advertising contracts in the Manufacturers Record for three months or longer include a subscription to the Daily Bulletin for the contract period, as well as a subscription to the Manufacturers Record.

BRIDGES, CULVERTS, VIADUCTS

Ala., Mobile.—City will construct reinforced concrete culvert on Wilkinson St. between St. Louis and Davis Aves., and concrete bridge across same at St. Anthony St.; culvert will be 2000 ft. long and the section 4x12 ft.; bids until Feb. 27; H. Pillans, Commr. (See Machinery Wanted.)

Ga., Atlanta.—Fulton County Comrs. let contract Mackle-Crawford Construction Co., 221-225 Grant Bldg., to paint and repair bridges; cost \$9000.

Md., Lonaconing.—Town will petition Legislature for authority to vote on \$5000 bonds to construct concrete bridge over George's Creek. Address Town Clerk.

Miss., Bay St. Louis.—Hancock County Supvs., Bay St. Louis, and St. Tammany Parish Police Jury, Covington, La., contemplate construction of bridge across Pearl River, dividing line between Mississippi and Louisiana.

Mo., Kansas City.—Jackson county will construct lately-noted bridge; location, Raytown, on Blue Ridge Blvd.; cost \$10,000; concrete rib arch, 143 ft. end to end; construction bids opened Feb. 13; Engrs., Waddell & Harrington, Kansas City. (See Machinery Wanted.)

Okla., Beaver.—J. G. Trindle, Liberal, Kans., interested in building 2 bridges in connection with construction of 7 mi. railroad from Beaver to Forgan, Okla.; 1350 ft. and 150 ft. long.

S. C., Spartanburg.—Southern Ry. (B. Herman, Ch. Engr.), Washington, D. C., Charleston & Western Carolina Ry. and Carolina, Clinchfield & Ohio Ry. are reported to construct viaduct over tracks at Magnolia St. (See Railway Stations, Sheds, etc.)

Tenn., Chattanooga.—Hamilton County Comrs. voted to issue \$100,000 bonds for improvements to bridge across Tennessee River at Walnut St.; propose to place new steel girders under street-car tracks, lay heavy wooden floor, upon which finished floor of creosoted blocks is to be laid; widen roadway 18 in., etc.; estimated cost of girders \$40,000, and of other work \$40,000 additional; County Engr. Bryan will prepare plans.

Tex., Fort Worth.—City's plans for Nine-Mile Bridge across Trinity River includes concrete and steel structure 1300 ft. long; con-

tract price, \$16,000; this is part of city's plan for water-works extension; El Paso Bridge & Iron Co., 517 Southwestern Bldg., El Paso (lately noted as having contract), states it has not placed order for materials, but will do so immediately.

Tex., Freeport.—Brazoria county, J. W. Munson, County Judge, and Houston & Brazos Valley R. R. Co. are having preliminary surveys made for previously-noted bridge across Brazos River at Freeport and Velasco; J. C. Tolman of Tolman Engineering Co., Houston, acting for County Comrs. Court; E. L. Martin, Supervisor M. of W., and J. E. Thornton, Engr., representing Missouri, Kansas & Texas R. R., A. M. Acheson, Ch. Engr., Dallas (which latter company operates Houston & Brazos Valley R. R.); steel structure, with 125-ft. draw, constructed for railroad, wagon and pedestrian travel; estimated cost \$120,000.

Tex., Glen Flora.—Wharton County Commissioners will construct 3 steel bridges, one over Colorado River at Glen Flora and 2 across Peach Creek; bids until Feb. 2; J. R. Bowen, County Judge, Wharton, Tex.

Tex., New Boston.—Bowie and Cass counties will jointly build 200-ft. steel or suspension bridge across Sulphur River at Pace's Ferry; plans received until Feb. 9; bids opened Feb. 16 at Atlanta, Tex.; Lee Tidwell, New Boston, Judge, Bowie county; John Fant, Linden, Judge, Cass county. (See Machinery Wanted.)

Tex., Wharton.—Wharton county votes Mch. 5 on \$100,000 bonds to repair bridges and construct roads. Address County Comrs.

Va., Norfolk.—Common Council will consider granting of franchise for toll bridge from Norfolk to Berkley; lift draw type; 2 lifts with 140 ft. clear for passage of vessels; roadway 30 ft. wide; two 6-ft. sidewalks; 20 ft. above high water; estimated cost \$400,000; J. O. Wiggs, Chrmn. of Com.

W. Va., Charleston.—Charleston Interurban Ry. (S. M. Gallaher, Box 994) is reported as contemplating construction of 1000-ft. steel bridge.

CANNING AND PACKING PLANTS

Ark., Arkadelphia.—T. N. Wilson is reported as interested in erection of cannery.

La., New Orleans.—Louisiana Canning Co., capital stock \$50,000, inctpd. by Leon Collet, P. Rivers Richardson and Jas. O'Rourke.

Md., Baltimore.—Webster-Butterfield Co. announces change of name from Lord-Webster Co.; Emory V. Webster, Pres.; C. F. Butterfield, V.-P.; T. Preston Webster, Treas.; Thos. B. Webster, Secy.; constructing previously-noted plant, under erection by Canton Co., Water and Holiday Sts., Baltimore; addition adjoins present plant and will greatly increase capacity.

CLAYWORKING PLANTS

Ala., Mobile.—Tile.—Southern Tile Co., capital \$3000, inctpd.; W. C. Smith, Pres.; K. C. Winter, Secy.-Treas.

Ark., Texarkana.—Bricks.—Texarkana Brick Co., Geo. W. Fouke, Pres., and C. W. Fouke, Gen. Mgr., states has rebuilt plant lately noted (under Tex., Texarkana) burned; daily capacity 25,000 dry-pressed bricks.

Fla., Bowling Green.—Bricks.—Company organized with Fred Wels as Gen. Mgr. and B. P. Kelley as Secy.; establish brick plant; utilize local clay deposits; constructing first kiln.

Fla., Orlando.—Bricks.—Board of Trade appointed committee composed of J. L. Giles and others to investigate feasibility of establishing brick plant.

Ga., Savannah.—Bricks.—Phoenix Brick Co., capital stock \$3000, inctpd. by Hugh Donohue, Wm. McCormick and Wm. J. Ryan.

Ky., Lebanon.—Bricks and Tile.—Lebanon Brick & Tile Co. organized; T. M. Estes, Pres.; Robt. L. Goodin, V.-P. and Treas.; J. Lee Goodin, Secy.; has buildings and machinery; daily capacity 50,000 brick and 35,000 ft. of tile; will probably build plant (in early spring) for burning brick. (Lately noted inctpd., \$5000 capital.)

Tex., Brownwood.—Brick and Tile.—Brownwood Brick & Tile Co. purchased lately-noted plant, which is complete, excepting few repairs; W. S. Wescott, Pres.; B. E. Hurlbut, Secy.; Hal Hardeman, Mgr.

Tex., Jourdanton.—Brick and Tile.—Jourdanton Brick & Tile Co. organized; E. Danal, Pres.-Mgr.; T. B. Hogg, V.-P., Shawnee, Okla.; W. H. Hill, Secy.-Treas., Jourdanton; brick plant with daily capacity 20,000 brick; also mfr. roofing tile, flooring tile and hollow blocks; machinery and boilers complete, being installed; is erecting frame and ironclad building. (Lately noted inctpd., \$10,000 capital.)

COAL MINES AND COKE OVENS

Ala., Cardiff.—Cardiff Mining Co., capital stock \$4000, inctpd.; Luther B. Pettiford, Pres., Birmingham; Chas. Hodge, Gen. Mgr., Cardiff; W. R. Pettiford, Secy.-Treas., Birmingham.

Ky., Henderson.—Deepwater Coal & Coke Co., capital stock \$10,000,000, chartered; main offices, Evansville, Ind.; Pres., H. L. Allen, Pittsburgh; purchased about 210,000 acres coal land, including 18 mines, comprising properties at Henderson, Baskett, Spottsville, Bluff City, Corydon, Waverly, Sebrree, Nebo, Marlon, Dekoven, Madisonville, Morgantown, Newburg and Mortons Gap; cost reported as exceeding \$6,000,000; negotiating for 3000 ft. river front; plans to construct coal-storage plant and tippie for loading barges. (Lately noted.)

Ky., Pikeville.—American Fuel Co. (lately noted inctpd., capital \$10,000) continues operation; acreage 165; daily capacity 150 tons; W. W. Reynolds, Pres.; O. P. Chatfield, V.-P.; F. B. Preston, Secy.

Ky., Rosevelt.—Wolf Valley Coal Co., T. C. Loucks, Pres., Chicago, will develop 2500 acres coal land; plans daily output 3000 tons coal; W. H. Soper, Mgr., Rosevelt; lately noted, under Winchester, as buying coal land. (See Machinery Wanted.)

Okla., North McAlester.—North McAlester Coal Co., capital stock \$5000, inctpd. by Richard E. Jones, Walter Cunningham and Rosy S. Jones.

Tenn., Nashville.—Cayce Coal Co., capital stock \$10,000, inctpd. by M. C. Cayce, W. Brice Cayce, J. S. Cayce and others.

W. Va., Griffith (not a postoffice).—Lackawanna Coal & Lumber Co. has 30,000-acre coal tract in Boone county on Hopkins Fork; will begin operation in spring or summer; install machinery; plans completed for developing townsite of Griffith, 9 mi. from Seth, W. Va., and erecting tippie; also erect about 300 miners' homes, bathhouse with individual lockers, 2 clubhouses, hotel, skating rink and moving-picture theater; railroad

from Seth to Griffith completed; W. L. Connell, Scranton, Pa., Pres.; J. K. Griffith, Pittston, Pa., V.-P.; F. J. Foster, Treas.; David Connell, Secy., both of Scranton, Pa.

Tex., Zephyr.—J. R. Stewart, lately noted (under Brownwood), with G. S. Wilson, as planning development on 1000 acres leased lignite coal lands, advises will open shaft; location between Blanket and Zephyr.

W. Va., Coffman.—Winona Coal & Coke Co. (general office Grafton, W. Va.) is reported as contemplating improvements to include 60 coke ovens and additional mine opening.

W. Va., Parkersburg.—Acme Corp., capital stock \$250,000, chartered by S. D. Camden, C. C. Martin, Thos. Logan and others.

W. Va., Welch.—Cumberland Cannal Coal Co., capital stock \$55,000, inctpd. by Jas. P. Flannagan, J. W. Waldron, Thos. J. Flannagan and others.

COTTON COMPRESSES AND GINS

Ala., Dothan.—W. C. Pilcher will build gin; electrically operated.

S. C., Lexington.—People's Ginnery Co., capital \$3500, inctpd. by E. J. Corley and J. B. Coreley.

Tex., Edna.—Farmers' Union of Jackson county secured site on which to build gin; secure power to operate machinery from Edna Lee & Light Co.

Tex., Yorktown.—Eckhardt Gin Co., capital stock \$16,000, inctpd. by C. J. Eckhardt, R. H. Eckhardt and Gus Eckhardt.

COTTONSEED-OIL MILLS

Ga., Carrollton.—Mandeville Mills is repairing building lately noted damaged by fire; purchased machinery.

N. C., Henderson.—North Carolina Cotton Oil Co. will erect addition to plant; install presses and other machinery.

Okla., Tishomingo.—Geo. I. Baldwin of Dallas, C. T. Wright, Celina, Tex., and others will incorporate company with \$25,000 capital stock to build cold press cottonseed-oil mill.

DRAINAGE SYSTEMS

Fla., Bartow.—Mellush & Brohill, 222 Unity Bldg., Bloomington, Ill., Engrs. for Peace Creek Drainage Dist., advises as follows: District consists of 45,000 acres of muck land in upper reach of Peace Creek, which flows into Peace River and discharges into Charlotte Harbor, 80 mi. south of Bartow; reclamation plan includes system of gravity drains, varying in size from bottom width of 40 ft. to 8 ft.; final surveys now being made; approximately 2,000,000 cu. yds. excavation, consisting of 28 mi. main canal and several laterals; work suitable for floating dipper dredges and ready for letting probably about April 1; reclaimed land adapted for trucking and general farming. (Lately noted.)

La., Schriever.—M. C. Baker, New Orleans, and others purchased 4270 acres alluvial lands in Bayou Cane tract between Schriever and Houma; length about 6 mi. and accessible to rail and inland water transportation; reported purchase price, \$105,000; stated purchasers will drain and develop, improvements to include shell road through property to connect with road from Houma.

N. C., Salisbury.—John K. Goodman, Mt. Ulla, N. C., advises meeting of interested landowners held at Salisbury Feb. 6 to consider proposed dredging of Rowan county streams; probably organize dredging districts, including Second Creek and tributaries, Kerr, Sills, Back and Withrows creeks.

ELECTRIC PLANTS

Ala., Decatur.—Alabama Power Co., Birmingham, is reported as to build electric plant.

Ark., Ruddells.—Arkansas Lime Co. is reported as contemplating purchase and installation of 180 K. W. 220-volt direct-current generator, with switchboard complete, and 12 motors from 10 to 40 H. P. each.

D. C., Washington.—Byron R. Newton, Asst. Secy. Treasury, selected L. B. Stilwell, Consit. Engr., New York, to co-operate with engineers of supervising architect's office in Treasury Department to prepare plans and specifications for plant to supply light, heat and power to Government buildings; these are Department of Agriculture, Bureau of Engraving and Printing, Treasury Building,

White House, State, War and Navy, Winder and Mills buildings, Court of Claims, National Museum, Smithsonian Institution, Army Medical Museum, Fish Commission, District Building, Washington Monument and Postoffice Department; also Departments of State, Justice, Commerce and Labor when these structures are completed. Locate central plant on river facing Potomac Park, at Water St. between 13th and 13½ Sts. S. W.; Congress appropriated \$1,494,104 for buildings, engines, generators, pumps, machinery appliances, equipment tunnels and ducts; measure appropriating for plant contemplates connection to be made between central plant and Capitol power plant, insuring protection in case of accident.

Ky., Irvine.—C. A. Graham, Etowah, Tenn., is reported as planning purchase of franchise to operate electric-light plant. (City lately noted to grant franchise for electric-light plant.)

Ky., Pembroke.—R. H. Power Co. (successor to Pembroke Light, Power & Water Co.), S. G. Ragsdale, Gen. Mgr., will purchase material for construction of 27-mi. transmission line, including transformers, poles, transmission towers, lightning arresters, insulators, underground conduit, distribution cables and wire meters, tub transformers, rectifiers, arc and incandescent lamps, etc.

Ky., Winchester.—Victor Bloomfield, N. R. Batteff and others contemplate installing ornamental street-lighting system in new subdivision of city.

La., Natchitoches.—City contemplates purchasing 50 K. W. generating unit, consisting of generator and engine (3-phase, 60 cycles, 2200 volts) and switchboard, material for 1 mi. of line for residential lighting; also 10 H. P. pumping plant for Normal School; W. E. Aymond, Supt.

Md., Rising Sun.—Town petitioned Legislature for authority to issue bonds to install electric plant. Address Town Clerk.

Md., Easton.—Town contemplates constructing electric-light plant; proposes issuing \$30,000 bonds. Address Town Clerk.

Mo., Ava.—Ava Electric Light Co. completed plant; franchise previously noted granted; has 50 H. P. overshot wheel, but can develop 70 H. P.; power furnished from lake covering 5 acres, 6 mi. from Ava; cost of concrete dam, \$1800; cost of machinery and equipment (purchased), \$5500; total expenditure, \$10,000; J. W. Pettit & Son, Contrs.; H. S. Wilson, Prest.; J. W. Pettit, V.-P.; L. H. Pettit, Secy.-Treas. (Lately noted inceptd., \$6000 capital stock.)

Mo., Carrollton.—Water, Light & Transit Co., S. J. Jones, Prest., purchased and will install \$25,000 worth of machinery.

Mo., Joplin.—Empire District Electric Co. plans to issue \$120,000 bonds for improvements.

N. C., Mooresville.—Town will build substation and construct 1 mi. 3-phase transmission line for power load; also purchase ornamental street-lighting system for business section; Jas. L. Donald, Supt.

N. C., North Wilkesboro.—Town Comms. contemplate installation of engine and boiler as auxiliary to water-power for municipal electric-light plant.

Okla., Bennington.—Bennington Ice, Light & Power Co., capital \$5000, inceptd. by H. C. Clark, W. S. Murphy and J. S. Dawson.

Okla., Stratford.—City will call election to vote \$35,000 bonds to construct water-works and electric-light systems; engaged Benham Engineering Co., 435 American National Bank Bldg., Oklahoma City, Okla., to prepare plans and specifications, etc., and supervise construction.

Tenn., Chattanooga.—Tennessee Valley Light & Power Co., capital stock \$1,100,000, inceptd. by Farrand S. Stranahan, W. Emory Wardwell and Roy N. Grout of Worcester, Mass.; offices at Chattanooga and Worcester.

Tenn., Dresden.—City issued \$27,000 light and water bonds; R. L. Suddath, Mayor.

Tenn., South Pittsburg.—South Pittsburg Light Co. has about completed negotiations for transmission line from power-house at Hale's Bar to Jasper; proposes to furnish light and power to South Pittsburg, Jasper, Bridgeport, Whitwell and Sequatchee.

Tex., Cameron.—Cameron Water, Power & Light Co. contemplates enlarging plant; proposes installing 250 K. W. engine-driven generator; Scott Consulting Engineering Co. of Dallas, Tex., is in charge.

Tex., Winters.—Winters Light & Power Co. increased capital stock from \$10,000 to \$15,000.

Va., Victoria.—City, J. I. Banks, Mayor, is prepared to grant electric-light franchise. (See Machinery Wanted.)

W. Va., Wheeling.—Ohio County Comms.

granted 30-year franchise to Brooke Electric Co., Warwood, W. Va., to construct transmission lines over 4 county roads to furnish power for lamps and motors; R. G. Buflington of Wheeling is contracting agent of Brooke Co.

FERTILIZER FACTORIES

Fla., Tampa.—West Coast Fertilizer Co., capital stock \$50,000, inceptd.; J. H. Blake, Prest.; E. B. Priest, V.-P.; R. B. Campbell, Secy.-Treas.

Ga., Macon.—Interstate Chemical Corp. has plans by Nisbet & Brown, Grand Bldg., for fertilizer plant; heavy mill construction; composition roof; cost about \$52,000. (Lately noted.)

Ga., Royston.—Tri-County Fertilizer Co., capital stock \$15,000, inceptd. by W. C. Mason, J. F. Roberts and G. H. Pruitt.

S. C., Charleston.—McCabe Fertilizer Co., capital stock \$50,000, inceptd.; W. Gordon McCabe, Jr., Prest.; David G. Dwight, Treas.; W. D. Gaillard, Secy.

S. C., Ellenton.—Ellenton Fertilizer Co., capital \$15,000, inceptd.; H. M. Cassel, Prest.; W. B. Cassell, Secy.-Treas.; building erected; equipment installed.

Va., Alexandria.—Herbert Bryant's Sons will rebuild fertilizer factory burned at estimated loss of \$40,000.

FLOUR, FEED AND MEAL MILLS

Ga., Gainesville.—J. H. Martin, H. A. Terrell, M. M. Ham and W. N. Oliver purchased roller mill and other property of Gainesville Roller Mill Co.; will improve and operate.

Ky., Sebree.—M. M. Hancock secured building and will operate feed mill; later may install machinery for making alfalfa meal and small planing mill. (Lately noted.)

Mo., Carthage.—McDaniel Milling Co. will install several electrical motors in flour mill to supplant steam for power.

PROPOSAL ADVERTISEMENTS

IN THIS ISSUE ARE

PUBLISHED ON PAGES 88 and 89

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Mo., Joplin.—Brand-Lunwoody Milling Co., 11th and Wall Sts., will erect building; 6 stories; concrete; fireproof; cost \$150,000; plans prepared.

N. C., Hendersonville.—Freeze-Bacon Hosiery Mills is reported to install grist mill; electric power; proposed later to install wheat mill.

Va., Richmond.—Mayo Milling Co., capital \$50,000, inceptd.; G. D. Mayo, Prest.; M. A. Wilkinson, Secy.

FOUNDRY AND MACHINE PLANTS

Ala., Birmingham.—Blacksmith and Boiler Plants.—Caldwell-Watson Foundry & Machine Co. will rebuild blacksmith and boiler plants burned at estimated loss of \$50,000.

Ala., Pell City.—Machine Shop.—H. P. Cork, Birmingham, will probably establish machine shop and garage.

Ga., Cordele.—Plows.—E. B. James and D. A. R. Crum will organize company to mfr. plow invented by Mr. James.

Ga., Dalton.—Jail Work.—Manly Jail Works (Frank Manly, owner and Gen. Mgr.) will erect additional buildings, by day work; 80x 180-ft. structure and outbuildings; brick, mill construction; automatic sprinklers; install punches, lathes, drills, rolls, etc., with individual motor drive; mfr. jail and prison work. (See Machinery Wanted.)

Ga., Rome.—Cottonseed Distributor.—Covington Mfg. Co., Headland, Ala., contemplates establishing plant to mfr. cottonseed distributor and assembling plant.

Ky., Louisville.—Roll Corrugating.—Louisville Mill Roll Corrugating Co. organized; Frank H. Sitzer, Prest. and Treas.; John E. Jenner, V.-P. and Mgr.; Davis S. McElroy, Secy.; install corrugator, lathe, drill press, etc., for roll corrugating. (Lately noted inceptd., capital \$3000.)

Ky., Pineville.—Stoves.—C. H. Johnson of Jellico, Tenn., is reported to build stove foundry.

S. C., Charleston.—Machine Shop.—Navy Dpt., Washington, D. C., approved installation of machine tools in boiler shop and foundry in building No. 9, including two 20-ton overhead cranes; estimated cost \$30,000, and with installation cost will total \$40,000; also install additional machinery in forge shop in building No. 6. Address Commandant of Navy-yard, Charleston.

Tex., Victoria.—Safes and Locks.—Victoria Safe & Lock Co. will increase capital stock from \$40,000 to \$100,000.

Tex., Marshall.—Machinery.—E. B. Hayes Machinery Co., capital \$40,000, organized by E. B. Hayes, H. O. Pfeiffer, P. H. Manaire and J. B. Schroat; succeeds E. B. Hayes Machinery Co. Mr. Hayes will be Prest.

Va., Norfolk.—Iron Works.—Twin City Iron Works, capital \$25,000, inceptd.; J. D. Howard, Prest.; F. H. Mass, Secy.

Va., Richmond.—Axles.—Hedges Sectional Axle Corp., capital stock \$25,000, chartered; J. E. Hedges, Prest., Winterpock, Va.; S. H. Ferdue, Secy., Richmond.

Va., Roanoke.—Plow-Subsoiler.—Virginia-Carolina Subsoil Plow Co., Ferry Bldg., capital \$25,000, inceptd.; J. W. Simpkins, Prest.; J. E. Gish, Secy.-Treas.; W. A. Simpkins, Raleigh, N. C., V.-P.; company states expects to manufacture at early date, but now having attachment manufactured by contract.

W. Va., Wheeling.—Castings.—Wheeling Mold & Foundry Co. decided to increase capital stock from \$750,000 to \$1,000,000. (Lately noted to hold meeting.)

GAS AND OIL ENTERPRISES

Fla., St. Petersburg.—Gas Plant.—City votes Meh. 3 on \$148,000 bonds to build gas plant; J. B. McCrary & Co. of Atlanta, Ga., will prepare plans. (Lately noted.)

La., New Orleans.—Oil Refinery, etc.—E. L. Bohony of Los Angeles, Cal., and others are

Nichols; derrick erected; need pipe. (See Machinery Wanted.)

Okla., Oklahoma City.—Ashton-Culbertson Oil Co., capital \$21,000, inceptd. by J. J. Culbertson, Jr., and Orin Ashton of Oklahoma City, and J. J. Culbertson of Paris, Tex.

Okla., Oklahoma City.—Spindletop Oil Co., capital \$10,000, inceptd. by W. M. Greene of Oklahoma City, G. A. Greene and H. M. Greene of Enid.

Okla., Oklahoma City.—Herrin Oil Co., capital \$12,500, inceptd. by Geo. D. Marshall of Oklahoma City, Chas. Parks and E. T. Herrin of Guthrie.

Okla., Oklahoma City.—Chesterfield Oil Co., capital stock \$10,000, inceptd. by C. Pickering, D. W. Collins and A. J. Wood.

Okla., Pawluskas.—See-Saw Oil Co., capital stock \$50,000, inceptd. by H. H. Brenner, A. N. Ruble and W. T. Leahy.

Okla., Sapulpa.—H. A. Dougherty Oil & Gas Co., 2119-12-14 Grand Ave., Kansas City, Mo., has 10,000,000-gal. gas well completed and is drilling another well; will drill others; furnishes gas to glass factories at Sapulpa. (Lately noted inceptd., \$18,000 capital.)

Okla., Shreveport.—Louisiana Oil Exporting Co., capital \$100,000, inceptd.; E. R. Ratcliff, Prest.; Geo. W. Duke, V.-P.; C. T. Madison, Secy.; R. H. Davis, Treas.

Okla., Skiatook.—Lucas, Craig & Miles Oil Co., capital \$60,000, inceptd. by A. W. Lucas, J. H. Craig and L. L. Miles.

Okla., Sulphur.—Polk Oil & Gas Co., capital \$25,000, inceptd. by Lon Polk, H. J. Polk, C. F. Mendors and Geo. M. Nicholson.

Okla., Stillwater.—Stillwater Farmers & Merchants' Oil & Gas Co., capital \$50,000, inceptd. by Frank Harding, A. R. Cleverdon and E. T. Thacher.

Okla., Tulsa.—Holmes Drilling Co., capital stock \$10,000, inceptd. by B. H. Laughlin of Tulsa, C. B. Holmes and Edith C. Holmes of Muskogee.

Okla., Tulsa.—He Oil Co., capital \$25,000, inceptd. by J. Z. Smith, H. Wreche and Fred D. Oiler.

Okla., Tulsa.—Henryetta Queen Esther Oil Co., capital \$50,000, inceptd. by H. S. Janowitz, John B. Means and H. J. Cubser.

Okla., Tulsa.—Sterrett-Tuthill Oil & Gas Co., capital \$10,000, inceptd. by E. I. Newblock and Geo. D. Key of Tulsa and O. J. Cunningham of Kansas City, Mo.

Okla., Tulsa.—Sperry Oil & Gas Co., capital \$100,000, inceptd. by F. J. Bradford, S. P. Wallace and V. H. Van Horn.

Okla., Wewoka.—Palmetto Oil Co., capital \$25,000, inceptd. by Frank H. Reed, Ray W. Reed and E. W. Whitney.

W. Va., Parkersburg.—Lamp Oil Co., capital stock \$50,000, inceptd. by J. H. Otey, W. J. Dent, W. M. Miller and others.

W. Va., Parkersburg.—Avoca Petroleum Co., capital stock \$10,000, inceptd. by T. J. McGuire, B. R. McGuire, C. A. Neptune and others.

ICE AND COLD-STORAGE PLANTS

Md., Hurlock.—Jefferson-Holt Ice Co., Federalburg, Md., let contract to install 5 to 10-ton ice plant, costing \$10,000; all contracts let except for boiler. (Lately noted.)

Mo., Carrollton.—Water, Light & Transit Co., S. J. Jones, Prest., purchased and will install \$25,000 worth of machinery.

Mo., Kansas City.—Quality Ice & Cold-Storage Co., capital \$50,000, inceptd. by Alex. Rieger, A. L. Williams and Geo. C. Newland; purchased ice plant at 4th and Oak Sts. having capacity 60 tons; purchase price \$18,000; plans to enlarge and erect cold-storage plant.

Okla., Bennington.—Bennington Ice, Light & Power Co. inceptd. by H. C. Clark and others. (See Electric Plants.)

Tex., Graham.—Graham Mill & Elevator Co. will build 15-ton ice plant; cost \$15,000.

Tex., Hempstead.—R. A. Hollick, Navasota, Tex., submitted proposition to establish ice plant.

Va., Waynesboro.—Crystal Fount & Ice Co., capital \$15,000, inceptd.; J. M. Coyner, Prest., Basic City, Va.; H. M. Clem, Secy., Staunton, Va.

LAND DEVELOPMENTS

Ala., Birmingham.—King Land & Improvement Co., 212 First Ave., contemplates increasing capital stock from \$93,300 to \$150,000.

Ala., Mobile.—City will expend \$15,000 for parks. Wright Smith, City Engr.

Fla., Indian Springs.—Indian Springs Land Co. plans to build townsite at Indian Springs, construct roads, drain land, erect

hotel, etc.; Wm. J. Greene, Pres.; August Greene, Secy.-Treas., both of Chicago, Ill.

La., New Orleans.—Tieflaw Land Co., Box 814, organized; W. W. Hines, Pres. and Treas.; J. L. Wright, Secy.; will develop 1600 acres in Tangipahoa parish for strawberry farms; subdivide into 10 and 20-acre tracts. (Lately noted incptd., \$6500 capital.)

N. C., Bolton.—North Carolina Co., Frank P. Graves, Pres., First National Bank Bldg., Chicago (lately noted organized, \$375,000 capital stock, and purchasing 230,000 acres in Columbus and Brunswick counties), retained Brett Engineering Co., Wilson, N. C., as Consult. Engr.; lands to be developed for farming; drain certain parts; clear stumpage and build roads; contemplated to clear 50,000 acres yearly in tracts of 40 or more acres.

N. C., Southern Pines.—Mr. Rineheart of Ohio (registered at Southern Pines Hotel) is reported to purchase about 1000 acres for seppernong vineyard; grow grapes for seppernong wine.

N. C., Wilmington.—Belfast Land Co., 30 N. 2d St., Samuel R. Maxwell, Pres., advises will develop 2000 acres in New Hanover county, on Cape Fear River; vineyards; capital stock \$50,000; lately further described. (See Machinery Wanted.)

S. C., Charleston.—Woodlawn Park Corp., capital stock \$30,000, incptd. by C. D. Gadsden and W. Brennemann.

S. C., Columbia.—Unit Development Co., capital stock \$10,000, incptd.; E. T. Summersett, Pres.; M. M. Platt, Secy.-Treas.

Tenn., Knoxville.—Greenwood Cemetery Co. will make improvements, including laying out new sections, making driveways, excavating and walling for lake, and building 1-mi. winding driveway to summit of ridge.

Tex., Houston.—C. B. Harris Co., C. B. Harris, Gen. Mgr., 326 First National Bank Bldg., let contracts for part of work in developing 130 acres about 3 mi. east of courthouse in Houston; improvements include sidewalk construction, paved streets and water system; cost \$10,000 to \$15,000. (Lately noted.)

Tex., Cotulla.—Riverdale Farm Co. organized; H. F. Ganguer, Pres.; M. M. Bennett, Secy.; L. Clark Dunn, Treas.; will develop 640 acres in Nueces River Valley, La Salle county, for alfalfa and other farming products, stock raising, etc.; 300 acres already under cultivation; erect silos; cost of improvements, \$60,000; lately noted incptd., \$125,000 capital. (See Machinery Wanted.)

W. Va., Logan.—Alderson-Wilkinson Land Co., capital stock \$5000, incptd. by J. Cary Alderson, J. B. Wilkinson, L. G. Burns, J. B. Wilkinson, Jr., and others.

LUMBER MANUFACTURING

Ala., Decatur.—Southern Hardwood Lumber Co. organized with Jas. W. Adair, Pres.; E. W. Himes, V.-P. and Gen. Mgr., and R. M. Lipscomb, Secy.-Treas.

Ark., Clark County.—McDonald Bros., Helena, Ark., purchased 16,742 acres timber land in Clark county; contemplates erecting mills.

Ky., Elizabethtown.—T. J. Morrison Lumber Co., capital stock \$25,000, incptd. by T. J. Morrison of Elizabethtown, E. O. Dorsey of Carlisle, Ky., and Fred Jones of Louisville, Ky.

Ky., Louisville.—Stemmelen Lumber Co., capital stock \$30,000, incptd. by E. F. Stemmelen, Sidney Smith and G. G. Sales.

Ky., Sebree.—M. M. Hancock may install planing mill. (See Flour, Feed and Meal Mills.)

Ky., Sergeant.—Valley Creek Lumber Co. of Rochester, N. Y., is reported to have purchased boundary of oak timber on Kingdom Creek, in Letcher county, for development; locating stave and heading mills.

Miss., Electric Mills.—Brownlee Lumber Co., Shubuta, Miss., purchased timber land north of Electric Mills; later proposes erecting sawmill.

Miss., Clyde.—Lamar Lumber Co. is reported to install additional kiln.

Miss., Brookhaven.—Brookhaven Lumber & Mfg. Co. of Hattiesburg is reported to erect single-band sawmill with capacity 50,000 ft. (Lately noted.)

Mo., St. Louis.—Lorraine Lumber Corp., capital \$8000, incptd. by A. B. Boller, L. Boller and others.

North Carolina.—Williams, Seligman & Ball of Philadelphia, Pa., purchased timber land in Eastern North Carolina for about \$20,000; proposes to mfr. timber into mine props.

N. C., Asheville.—Foster-Woodbury Lumber Co., capital \$50,000, incptd.; E. S. Foster, Pres., New York; W. H. Woodbury, Secy.-Treas., Asheville.

N. C., Fayetteville.—Bowen Mfg. Co., capital stock \$50,000, incptd. by John O. Ellington, J. Vance McGorman and W. T. Bowen to mfr. lumber, etc.

N. C., Stanfield (not a P. O.).—Rocky River Land, Lumber & Mining Co., Concord, capital stock \$25,000, incptd.; M. E. Herrin, Pres.; M. L. Widenhouse, Box 297, V.-P.; A. E. Furr, Secy.; purchased 401 acres timber lands near Stanfield; will operate saw and planing mills, etc.; machinery mainly secured.

N. C., Zebulon.—Gettys-Martin Lumber Co. (lately noted incptd., \$6000 capital) is incorporation of manufacturing part of W. B. Gettys Lumber Co., having plant at Zebulon and at Eagle Rock; W. B. Gettys, Secy. and Mgr.

S. C., Duncan.—Duncan Lumber Co., capital stock \$3000, incptd. by S. G. Miller, R. S. Ballinger and others.

Tenn., Memphis.—Braxton Lumber Co., capital \$5000, incptd. by Corbin Braxton and others; operate planing mill.

Tex., Richland Springs.—R. A. Gardner Lumber Co., capital stock \$10,000, incptd. by R. A. Gardner, W. H. Gibbons and J. E. Odiorne.

Tex., Silex.—R. F. Hardie of Clifty, Ark., purchased timber land in Pope county.

Va., Finchville.—W. S. Embrey Co. closed contract with Hugh Falconer, both of Fredericksburg, for pine timber land.

Va., Mountain Grove.—J. E. Moore Lumber Co. (partnership—J. E. Moore and Edwin Moore of Danville, Va.) purchased 7000 acres timber land in Bath county in addition to 12,000 acres lately noted purchased; reported as planning to erect mills at Mountain Grove, Messrs. Moore state plans not ready for announcement.

METAL-WORKING PLANTS

D. C., Washington.—Sheet-metal Roofing.—Wolfenstener Co., 1313-1315 W St. N. W., incptd. with \$3000 capital stock by A. L. Wolfenstener, Max Wolfenstener and Hilda Wolfenstener.

La., Shreveport.—Metal Packing and Pulleys, etc.—Rhodes Mfg. Co., capital \$10,000, incptd.; Hampton P. Rhodes, Pres.; H. Clay Braud, V.-P.; J. C. Bates, Secy.-Treas.

Okla., Oklahoma City.—Silos, etc.—The Boardman Co. (takes over Wylie Mfg. Co., which was operated under same management) continues manufacture of tanks, smokestacks, etc.; capital stock increased to \$125,000. (See Miscellaneous Enterprises.)

W. Va., Clarksburg.—Roofing and Cornices. Sutter Roofing & Cornice Co. is reported to rebuild plant lately noted burned at estimated loss of \$30,000.

W. Va., Wheeling.—Shingles.—Wheeling Metal & Mfg. Co. has plans by Geo. H. Dieringer, Wheeling, for addition to metal shingle factory at Glendale; building of concrete, brick and metal; 40x168 ft.; stamping machines, etc. (Lately noted.)

MINING

D. C., Washington.—Gold.—Great Falls Gold Mining Co. incptd., capital \$1,250,000, by Wm. F. Kyle, Washington; E. C. Boyd and P. L. Garrett.

Mo., Carl Junction.—Zinc.—E. L. Gornan, David Gilmore, Chas. Turner and others are reported to develop zinc deposits.

Mo., Joplin.—Lead and Zinc.—Napoleon Mining Co., capital stock \$10,000, incptd. by E. C. Perego, S. P. McGraw, Dan McGraw and J. B. McCollough.

Mo., Kansas City.—Lead and Zinc.—Dangdale & Robinson Mng. Co., capital \$32,000, incptd. by F. H. Dangdale, W. B. Robinson and Jas. H. Cravens.

Mo., Castle Rock (not a P. O.).—Lead and Zinc.—Eureka Mining Co. (R. H. Miller and others), Joplin, Mo., will develop lead and zinc mines.

Mo., Duenweg.—Zinc.—R. L. McGee Mining Co. is reported as contemplating erection of mill on mining lease.

Mo., Joplin.—Gold.—Cooley-Brent Gold Concentrating Co. incptd., \$200,000 capital, by Geo. T. Cooley, Horace Merritt, both of Joplin, and Jas. A. Brent, San Francisco, Cal.

Mo., Reeds Spring.—Gold.—J. G. Meese is reported to organize company to develop gold mines.

Mo., St. Louis.—Lead and Zinc.—Three Johns Mining Co., capital stock \$4800, incptd. by John Dell of St. Louis, John C. O'Keefe and John W. Faessler of Moberly, Mo.

Mo., St. Louis.—Gold.—Merchants' Gold Mining Co., capital stock \$30,000, incptd. by Henry Leschen, John Hartman, Gustav Lehman and others.

N. C., Concord.—Rocky River Land, Lumber & Mining Co., capital \$25,000, incptd.; M. E. Herrin, Pres. (See Lumber Manufacturing.)

Tenn., Vestal (not a postoffice).—Marble.—Candora Marble Co. (John J. Craig, Knoxville, Tenn., and others) will build marble mill near Vestal, south of Knoxville; 7-acre site; building, etc., to cost about \$5000. (Lately noted incptd.)

Va., Chula-Mica.—Virginia Mica & Mining Corp., Geo. G. Matchett, Pres., will develop 136 acres mica deposits; output not determined. (Lately noted incptd., \$10,000 capital.)

Va., Richmond.—Granite Quarry.—Wise Granite & Construction Co., Thos. Gresham, Pres., incptd.; \$75,000 capital stock; succeeds Wise Granite Co. (See Miscellaneous Enterprises.)

W. Va., Martinsburg.—Limestone.—National Limestone Co. is reported to install several new crushers to increase capacity of quarries.

W. Va., Martinsburg.—Limestone.—Standard Lime & Stone Co., Jos. Diuto, Supt., is reported to open new quarry about ½ mi. from present operations.

MISCELLANEOUS CONSTRUCTION

Fla., Miami.—Dredging.—C. G. Fisher and associates (care of Alton Beach Realty Co., 210 12th St.) contemplate additional dredging; now completing 3½ mi. yard fill across bay; desire estimates from dredging companies in vicinity. (See Machinery Wanted.)

Fla., Tampa.—Sea Wall.—Comms. of Public Works, D. B. McKay, Chmn., will build sea wall along Bayshore Blvd. and cement sidewalks adjacent; 680 lin. ft. concrete wall and about 3800 sq. ft. sidewalks; bids until Feb. 3.

Ga., Augusta.—Bank Protection.—Government asks bids until Feb. 20 for proposed bank protection work, Savannah River; cost about \$105,000; 12-in. block stone paving on 8-in. crusher-stone foundation; two approaches with stone-block pavement for landing, on concrete base, and 540 lin. ft. wooden bulkhead; local engineer not yet appointed; W. C. Langgitt, Col., Corps of Engrs., U. S. Engr. Office, Savannah, Ga. (See Machinery Wanted.)

Ga., Dublin.—Mausoleum.—Georgia Mausoleum Co., 532 Candler Bldg., Atlanta, Ga., will erect lately-noted \$50,000 community mausoleum, capacity 300 crypts, in Dublin cemetery; open bids about Apr. 15; plans by A. Ten Eyck Brown, Atlanta. (See Machinery Wanted.)

La., Port Allen.—Levee.—Atchafalaya Basin Levee Dist. Comrs., V. M. Lefebvre, Pres., will construct Red Cross to Holloway Levee on east bank of Atchafalaya River; 250,000 cu. yds.; bids until Feb. 9 at office of Board of State Engrs., 213 New Orleans Court Bldg., New Orleans, La. (See Machinery Wanted.)

La., Shreveport.—Revetment.—Caddo Levee Board will expend \$200,000 to construct 3600 lin. ft. revetment work on Red River bank; contract lately noted let to Miller Engineering Co., Little Rock, Ark.

N. C., Wilmington.—Docks and Wharves.—City votes Mich. 24 on \$200,000 bonds to build wharves and other terminal facilities; Thos. D. Meares, City Clerk and Treas. (Lately noted.)

Tenn., Union City.—Levee, etc.—Obion River Drainage Dist., J. A. Coble, Secy. Board of Directors, asks bids until Feb. 21 to construct about 1,587,350 cu. yds. levee work and 551,000 cu. yds. of ditch work with floating dredge; clearing about 500 acres right of way for levees and ditches; clearing 228 acres of all trees, undergrowth, logs, etc., for floodway; for plowing and grubbing strip 1½ ft. wide in center of levee base, in area about 46 acres; for constructing 3 reinforced concrete sluiceways with hand-raising back-water gates, making 600 cu. yds. concrete; will consider bids on all or any part of work; work to be completed in 2 years. (See Machinery Wanted.)

Tex., Athens.—Levee.—Henderson county is considering issuance of \$45,000 levee bonds. Address County Comms.

Tex., Corpus Christi.—Pier.—J. E. Lloyd secured permit to build pier extending into bay for about 600 ft.; width, 50 ft.

Tex., Kaufman.—Kaufman County Levee Dist. No. 1 proposes to issue \$86,900 bonds for levee improvements.

MISCELLANEOUS ENTERPRISES

Ala., Bessemer.—Laundry.—J. C. Curry is reported as interested in installation of laundry in Embrick Bldg.; machinery ordered.

Ala., Birmingham.—Publishing.—Advance Co., capital stock \$30,000, incptd. to publish daily and weekly newspaper; Phil Painter, Pres.

Ala., Birmingham.—Construction.—Dunlap Craig Construction Co., capital stock \$3000, incptd.; H. E. Craig, Pres.; J. E. Dunlap, V.-P.; S. C. Enslin, Secy.-Treas.

Ark., Pine Bluff.—Stock Yards.—Pine Bluff Stock Yards Co., capital stock \$40,000, will be incptd.; Sam B. Russell, Pres.; R. N. Burks, V.-P.; Henry Roberts, Secy.; D. H. Saunders, Treas.

D. C., Washington.—Drainage Excavating. Drainage Excavating Co. incptd., \$350,000 capital, by McCarthy Hanger, The Ontario, Washington; Ellsworth A. Dewey and Edmund S. Wolfe, all of Washington.

Fla., Miami.—Engineering.—Florida Engineering & Development Co., capital stock \$10,000, incptd.; Chas. E. Greening, Pres.; L. D. Llewellyn, V.-P.; Geo. N. Mauer, Secy.-Treas.

Fla., Tampa.—Transfer.—Saunders Transfer Co., capital stock \$50,000, incptd.; J. R. Saunders, Pres. and Mgr.; C. D. Dennis, V.-P.; C. F. Thompson, Treas.; Hilton S. Hampton, Secy.

Ga., Atlanta.—Laundry.—J. T. Pendleton let contract Griffin Construction Co., Atlanta, to remodel Gate City Guards Armory for occupancy by Capital City Laundry; Walker & Chase, Archts., Atlanta.

La., New Orleans.—Incinerator.—City contemplates constructing incinerator; proposes using steam resulting operation of destructors in generating electric power for sale to local railway and light company or for operating municipal light plant; Mr. Lafaye, Commr., is corresponding with Rudolph Herring, Engr., New York.

Md., Baltimore.—Engineering.—Consolidated Engineering Co. reorganizing; increase capital from \$50,000 to \$200,000.

Mo., Cape Girardeau.—Hardware.—Bahr Bros. Hardware Co., capital \$8000, incptd. by W. C. E. L. and Leon J. Bahr.

Mo., Excelsior Springs.—Hardware.—Clay County Hardware Co., capital \$10,000, incptd. by John Q. Graves, Wm. E. Templeton and E. L. Craven.

Mo., Kansas City.—Stock Yards.—Kansas City Stock Yards Co. plans \$2,000,000 expenditure for extensions and improvements; to include yards for 35,000 hogs, using reinforced concrete construction and having sewer, water and electric-light connections in pens; 800 unloading chutes, driving viaducts, scales, cattle pens, weighing system, etc.; has asked Public Utilities Com. for authority to proceed with betterments.

Mo., Kansas City.—Cleaning.—Valot French Dry Cleaner Co., capital stock \$5000, incptd. by Mabel V. Boruff, Howard L. Jamison and I. Belle Ammon.

Mo., St. Louis.—Transportation.—Rapid Transit Co., capital stock \$2500, incptd. by Jas. E. Westrich, Guy B. Hogg and Harrison E. Miller.

Mo., St. Louis.—Construction.—Monroe Construction Co., capital stock \$2000, incptd. by John S. Hemphill, Minnie Hemphill and Eugene L. Wehmer.

N. C., Concord.—Dyeing and Cleaning.—R. E. Ridenhour will install dyeing and cleaning plant.

N. C., Durham.—Laundry.—R. L. Lindsey will rebuild Model Steam Laundry burned at loss of \$10,000.

N. C., Kings Mountain.—Hardware, etc.—Planters' Hardware & Vehicle Co., capital stock \$15,000; incptd. by E. L. Ware, J. T. Welch and Ben D. Philfer.

N. C., Raleigh.—Road Construction, etc.—Mr. Fleming and Hubert Ramsaur formed partnership for road construction work, etc.

N. C., Tarboro.—Publishing.—Standard Publishing Co., capital stock \$10,000, incptd. by F. A. Moore, Mrs. Julia G. Moore and Mrs. Helen P. Powell.

Okla., Henryetta.—Publishing.—Fellows Publishing & Printing Co., capital \$2500, incptd. by L. M., P. H. and H. C. Fellows.

Okla., Oklahoma City.—Machinery and Equipment.—The Boardman Co. increased capital stock to \$125,000; takes over Wylie Mfg. Co., formerly operating under same management and ownership; handle bridges, contractors' and road machinery, equipment and supplies; also manufacture metal silos, tanks, smokestacks, etc.; C. F. Welhner, Pres.; H. G. Stewart, V.-P.; Jno. R. Boardman, Secy.-Treas.; no change in management.

S. C., Fort Mill.—Dairy.—John J. Balles will establish commercial dairy on Valley Farm; plant crops to supply 20 to 25 head cattle, erect barns and fence about 200 acres.

S. C., Greenville—Laundry.—C. S. Good will erect steam laundry; site 22x65 ft.

S. C., Lancaster—Engineering.—C. W. Regnath Co., capital stock \$50,000, inceptd.; A. M. Ganson, Pres.; T. Y. Williams, Secy.

Tenn., Chattanooga—Laundry.—A. H. Silverman leased building on 11th St. and will equip as laundry; ordered machinery.

Tenn., Memphis—Railway Supplies.—Track Maintainer Co., capital \$100,000, inceptd. by Clyde Richert, D. A. Fisher, M. J. Anderson and others.

Tenn., Memphis—Laundry.—Crescent Laundry Co. will erect laundry; 2 stories; reinforced concrete; 75x90 ft.; cost about \$20,000. G. M. Shaw prepared plans and will soon invite bids.

Tex., Copperas Cove—Creamery.—Judson Clements and W. F. Kelly will build creamery; ordered machinery.

Tex., Jourdanton—Bottling.—Harry Burkhalter will build bottling plant; ordered equipment.

Va., Portsmouth—Contractors' Supplies.—Portsmouth Contractors' Supply Corp., C. M. McGinley, Secy., has plans by B. F. Mitchell, Norfolk, Va., for fireproof building; 65x80 ft.; will deal in lime, cement, plaster, sewer pipe, brick, etc. (Lately noted inceptd., \$50,000 capital.)

Va., Richmond—Construction.—Wise Granite & Construction Co., American National Bank Bldg., capital stock \$75,000, inceptd.; Thos. Gresham, Pres.; J. R. Paschall, Secy.-Treas.; L. Paschall, V.-P. and Mgr.; succeeds Wise Granite Co.

W. Va., Cairo—Hardware.—Cairo Hardware Co., capital stock \$15,000, inceptd. by J. L. McCormick, D. E. Smith, S. L. Smith and S. Steele Cox, all of West Union, W. Va., and others.

MISCELLANEOUS FACTORIES

Ala., Birmingham—Brewery.—Alabama Brewing Co. will erect 1-story brick building to cost \$2520.

Ala., Birmingham—Crackers.—Gallagher, Dilly & Carr Cracker Co., capital stock \$30,000, inceptd. by D. H. Carr, Hugh Gallagher, P. F. Dilly and Agnes Carr Mentz.

Ala., Montgomery—Shoes.—W. S. Pitts, Pres. Pitts Shoe Co., states company will not mfr. at present; will conduct jobbing business only. (Lately noted inceptd., \$100,000 capital.)

Ark., Little Rock—Automobile Wheels.—Gay-Streiblich Auto Wheel Co., capital stock \$125,000, inceptd.; Geo. R. Gay, Pres.; F. O. Rogers, V.-P.; Frank Wittenberg, Secy.-Treas.

Ark., Newport—Bottling.—Sipp Bottling Corp., M. A. Chambers, Secy.-Treas., Memphis, Tenn., leased building and will operate bottling plant; probably purchase established plant. (Lately noted.)

D. C., Washington—Bakery.—Corby Baking Co., 2305 Georgia Ave. N. W., will enlarge and remodel bakery; cost \$2500; C. B. Comstock, Archt.; Davis Construction Co., contractor, Union Trust Bldg.

D. C., Washington—Bakery.—Coppertite Pie Baking Co., 3287-89 M St., organized; Henry Coppertite, Pres.; Geo. W. Offutt, V.-P.; Walter T. Weaver, Secy.; W. E. Van Deusen, Treas.; erect 44x240-ft. building; ordinary construction; Mr. Van Deusen, Contr.; Richard Ough, Archt., Friendship Heights, Md.; equipment will include ovens, motors, etc.; lately noted inceptd., \$35,000 capital. (See Machinery Wanted.)

Fla., Gainesville—Cigars.—Geo. Slavik will rebuild factory; ordinary construction; date of opening bids not set; daily capacity, 12,000 cigars. (Lately reported damaged by fire.)

Fla., Jacksonville—Bakery.—A. B. Anderson Grocery & Baking Co., A. B. Anderson, owner, opens bids Feb. 18 to remodel building for bakery; machinery contracts closed. (Lately noted as having secured building and to establish bakery.)

Fla., Marianna—Bottling.—Purity Bottling Works will erect plant; 2 stories, of brick.

Fla., Pensacola—Excelsior.—Pensacola Excelsior Co., M. G. Hoffman, Pres., Box 120, will erect excelsior factory; 44x60 ft.; 14-ft. beam; ironclad; also erect 25x40-ft. warehouse; bids opened; machinery practically arranged for except 150 H. P. Dutch oven boiler with automatic engine; daily capacity 6 tons of excelsior. Lately noted. (See Machinery Wanted.)

Fla., Tampa—Cigars.—Tampa-Cuba Cigar Co. is reported to erect brick factory building costing \$60,000 in West Tampa.

Ga., Gainesville—Lime Grinding.—O. C. Maner of Montgomery, Ala., and J. W. Warner of Raleigh, N. C., purchased Deal Lime Works and propose expending \$25,000 for na-

chinery to mfr. lime; daily capacity 5000 tons.

Ga., Greensboro—Bottling.—Greensboro Coca-Cola Bottling Co., capital stock \$3000, inceptd. by L. C. Brown, J. J. Wilkins and S. B. Wilkins, all of Athens, Ga.

Ky., Covington—Overalls, etc.—Case Mfg. Co., Middleport, O., is reported to establish plant; has greater part of equipment.

Ky., Louisville—Leather.—American Oak Leather Co., 12th and Lexington St., will electrify plant; install 300 K. W. generator and corresponding H. P. in motors; retain present boiler equipment; B. M. Henry, manager of local plant; general offices in Cincinnati.

Ky., Louisville—Plumbers' and Steamfitters' Supplies.—Lalb Co. will erect factory at 1401 S. 18th St.; one story; brick; 75x530 ft.; cost \$12,000.

Ky., Louisville—Pillows.—Louisville Pillow Co. has plans and specifications for rebuilding shoddy factory and warehouse at 713-721 E. Main St., lately noted burned at estimated loss of \$10,000; plans call for building 50 ft. high and 140x80 ft.; cost about \$15,000.

Md., Annapolis—Daylight Mfg. Co. organized; A. J. McIntosh, Pres.; W. P. Covington, Mgr.; rent building; purchased sewing machines. (Lately noted inceptd., \$2000 capital.)

Md., Baltimore—Bakery.—Samuel Crystal, 32 S. Exeter St., has plans by Edward A. Moller, 1614 Harlem Ave., for addition to bakery 225-229 N. Exeter St.; 2 stories; brick; 49x46 ft.

Md., Baltimore—Clothing.—Ellis Baker & Co., 215 W. Baltimore St., leased warehouse at 327 W. Baltimore St.; will enlarge and equip as clothing factory; Baltimore St. frontage 3 stories high, to be enlarged by 3 additional stories; rear, fronting on German St., 4 stories high, to be enlarged by 4 additional stories; total floor space of enlarged structure, 32,000 sq. ft.

Md., Elkton—Automobile Lights.—Prest-O-Lite Co. of Indianapolis, Ind., is reported to have purchased site in West Elkton on which to build plant.

Mo., Bethany—Silos.—Bethany Silo & Construction Co., capital \$4500, inceptd. by E. H. Frisby, C. A. Springer and A. S. Moore.

Miss., Como—Bottling.—Sipp Bottling Corp., M. A. Chambers, Secy.-Treas., Memphis, Tenn., leased building and will operate bottling plant; will install machinery. (Lately noted.)

Miss., Rosedale—Bottling.—Sipp Bottling Corp., M. A. Chambers, Secy.-Treas., Memphis, Tenn., will lease building being erected and install machinery; no bids asked. (Lately noted.)

Mo., Kansas City—Bulldog Mfg. Co., capital \$50,000, inceptd. by W. M. Spencer, E. E. McKee and John M. Cleary.

Mo., Kansas City—Shirts.—Kansas City Shirt Co., capital \$2000, inceptd. by T. H. Kreaver, E. E. Evans and H. E. Dillon.

Mo., Kansas City—Overalls.—Burlington Overall Mfg. Co., 808 Broadway, capital \$50,000, inceptd.; Chas. Kabaker, Pres.; Nick Abramson, V.-P.; R. H. Anderson, Secy.; Hyman Naman, Treas.

Mo., Kansas City—Chemicals.—Mystic Chemical Co., capital \$50,000, inceptd. by Chas. A. Sims, Geo. E. Chambers and Jas. H. Hunter.

Mo., St. Louis—Comforts.—Kant-Rip-R-Wad Comfort Mfg. Co., capital stock \$50,000, incorporated by J. S. Touchstone, E. F. Touchstone and R. T. Birdwell, all of St. Louis; J. N. Touchstone, Sherman, Tex., and others.

Mo., St. Louis—Trousers.—Nelson Pants Co., capital stock \$6000, inceptd. by Max Nelson, Sam Brodsky and Louis D. Brodsky.

N. C., Goldsboro—Bakery.—Wayne Baking Co. (lately noted inceptd., \$2000 capital stock) is equipped for daily capacity 1000 loaves bread and 500 cakes; Wm. A. Robertson, Pres. and Treas.; C. F. Griffin, Secy.

N. C., Reidsville—Tobacco.—Robert Harris & Bro., capital stock \$250,000, inceptd. by J. B. Pipkin and Robt. Harris, Jr., of Reidsville; W. S. Forbes and J. A. Moncure of Richmond, Va.

Okla., Oklahoma City—Press Controller.—Christopher Press Controller Co. organized; W. B. Christopher, Pres.; Coleman R. Christopher, V.-P.; B. F. Van Dyke, Secy., Granite, Okla.; B. F. Slaton, Treas.; will operate plant to mfr. machines for automatically controlling cotton and wool press balers; lately noted inceptd., \$25,000 capital. (See Machinery Wanted.)

S. C., Charleston—Bakery.—Heinz Bakery Co., capital \$5000, inceptd. by A. M. Schwell and others.

S. C., Columbia—Typewriter Covers.—Spe-

cialty Mfg. & Sales Co., capital \$5000, inceptd. by A. H. Kohn, Pres.; W. H. Greener, V.-P.; W. J. Ohi, Secy.-Treas.

S. C., Greenville—Bottling.—Chero-Cola Bottling Co., capital \$20,000, inceptd. by T. C. Cleveland and C. G. Lott.

S. C., Georgetown—Bottling.—Georgetown Pepsi-Cola Bottling Co., capital \$5000, inceptd. by J. T. Oglesby, C. J. Oglesby and others.

S. C., Greenwood—Bottling.—Hartzog Ginger Ale Co., capital \$5000, inceptd. by H. G. Hartzog and M. B. Saunders.

S. C., Rock Hill—Bakery.—Rock Hill Steam Bakery (W. M. Mauldin and S. N. Sowell) will establish bakery for wholesale trade; motor-driven machinery; secured building; purchased machinery costing about \$6000; daily capacity 5000 loaves.

S. C., Spartanburg—Medicine.—Home Medicine Mfg. & Sales Co., capital \$3500, inceptd. by W. J. Shirley, Pres.-Treas.; E. J. Shirley, V.-P.; W. E. Goddard, Secy.

Tenn., Chattanooga—Overalls.—J. F. Holbert let contract to H. M. Reed & Co., Chattanooga, to erect lately-noted 2-story 40x100-ft. building; cost \$8000; install sewing machines; capacity of plant, about 100 doz. overalls daily; present location 618 Sydney St.; remove about March 15.

Tenn., Dickson—Ice-cream.—R. Simon will establish lately-noted plant; install machinery to manufacture ice-cream.

Tenn., Knoxville—Gloves.—Knoxville Glove Mfg. Co., capital \$15,000, inceptd. by Edgar S. Lotspeich, E. W. Kennedy, E. R. Wade, R. H. Sanson and Frank Sanders; secured 3-story building at Atkin St. and McGhee Ave. and will equip to mfr. workmen's gloves; ordered machinery; at present occupy 2 floors of building.

Tenn., Lewisburg—Bottling, etc.—Sipp Bottling Corp., M. A. Chambers, Secy.-Treas., Memphis, Tenn., leased building and will establish bottling and ice-cream plant; install machinery; no bids asked. (Lately noted at Tenn., Memphis.)

Tenn., Memphis—Burners.—Tri-State Burner Co., capital \$5000, inceptd. by W. A. Bailey, C. V. Stewart, E. H. Ullman and others.

Tenn., Nashville—Bottling.—Nashville Bottling Works, 159 Second Ave. South, organized; G. R. Hill, Pres.; J. R. Hill, V.-P.; R. F. Davis, Secy., Treas. and Mgr.; install machinery, including carbonator, to manufacture soda water, etc.; daily capacity about 800 doz. bottles. (Lately noted inceptd., capital \$10,000.)

Tex., Brenham—Bakery.—Chas. Krause purchased and will remodel brick building occupied by R. S. Schmidt as bakery; purchase price, \$3750.

Tex., Dallas—Bottling.—Pabst Brewing Co. is having plans prepared for 3-story brick building at 1010 Canton St.; Ellis Brin, Mgr. Dallas office.

Tex., Palestine—Bottling.—Star Bottling Works let contract to erect 2-story brick building at Lacy and John Sts.

Tex., Sugar Land—Sugar.—Imperial Sugar Co. will rebuild mill and warehouse burned at estimated loss of \$100,000.

Va., Danville—Medicine.—Milam Medicine Co., capital \$50,000, inceptd.; E. K. Jones, Pres.; L. C. Patton, Secy.

Va., Danville—Creamery.—Danville Creamery Co. (lately noted inceptd., capital \$20,000, to establish creamery) organized with O. E. Hatcher, Pres.; M. H. Hatcher, Secy.; E. C. Arcey, Treas.; has building; let contract for refrigerating equipment; needs creamery machinery. (See Machinery Wanted.)

Va., Fishersville—Lime Grinding.—Fishersville Lime Grinding Co., Wm. C. Miller, Mgr., will build lime-grinding plant; contemplated daily capacity 50 tons; electric power to be furnished by Staunton Lighting Co.

Va., Remington—Creamery.—Remington Creamery Co. increased capital stock from \$10,000 to \$15,000.

Va., Suffolk—Nuts and Candy.—Planters' Nut & Chocolate Co., Wilkes-Barre, Pa., purchased building for \$17,500; installing machinery for cleaning and shelling nuts.

Va., Richmond—Paper.—Virginia Paper Co., R. Thornton, Pres., will conduct wholesale paper business. (Lately noted inceptd., \$60,000 capital.)

Va., Richmond—Paper, etc.—Consolidated Paper & Box Mfg. Co. let contract to J. T. Nuchols, Richmond, to erect factory and warehouse; 71x129 ft.; fireproof; reinforced concrete; cost (without mechanical equipment) \$20,550; steam heat to cost \$300; electric lighting to cost \$300; concrete sidewalks; electric freight elevators to cost \$550; Barrett specification roof; Herbert L. Cain, Archt., 103 Main St., Richmond. (Previously noted as to increase capital.)

W. Va., Charleston—Candy.—Capital City Candy Co., capital stock \$25,000, inceptd. by H. J. Litz, John Ball, J. F. High and others.

W. Va., Mannington—Window Glass.—Mannington Window Glass Co. will build plant; tank building 136x174 ft.; flattening-house 174x154 ft.; warehouse 80x150 ft.; machine shop and boxing plant 50x80 ft.; office building to include safe and vault; tank building to be of structural steel, covered with corrugated iron; tank 20x80 ft. and glass pan 5 ft. deep with capacity 750 tons molten glass; estimated cost \$75,000; engaged engineer to prepare plans. (Lately noted.)

W. Va., Moundsville—Skirts.—H. B. Ferguson Co. of Pittsburgh, Pa., purchased plant of Kraft Mfg. Co. at State Prison, Moundsville; reported to enlarge, install additional machinery, etc.

W. Va., Morgantown—Ice-cream.—R. A. Wilburn Co. will build cold-storage and ice-cream plant to cost \$100,000; Ward E. White, Mgr. Parkersburg Ice & Coal Co., Parkersburg, prepared plans and will supervise construction; let contract at \$7000 to install electric motors and for wiring.

MOTORS AND GARAGES

Ala., Pell City—Garage.—H. P. Cork, Birmingham, will probably erect garage and machine shop.

Ala., Mobile—Automobiles.—Short Automobile Co., 103 Conception St., organized; Chas. W. Short, Pres. and Mgr.; F. M. Barron, V.-P.; J. R. Barron, Secy.-Treas.; deal in automobiles. (Lately noted inceptd., \$4000 capital.)

Ala., Anniston—Automobiles.—Anniston Automobile & Garage Co., capital stock \$2000, inceptd. by A. L. Scarborough, Mary L. Scarborough and Arthur Bosworth.

Ark., Hot Springs—Garage.—Army and Navy General Hospital receives bids until Feb. 10 to build garage; information on application to Constructing Quartermaster.

D. C., Washington—Transfer.—Cowie & Taylor Co., 1214 V St. N. W., inceptd. with \$15,000 capital stock by Gordon R. Cowie, Robt. L. Taylor, Jr., and Jas. F. Kelly.

Fla., West Palm Beach—Garage.—G. C. Barco Co. is reported to build garage.

Ky., Central City—Automobiles.—Barnes Automobile Co. (lately noted inceptd., capital \$15,000) organized; E. P. Barnes, Pres.; B. C. Barnes, V.-P.; J. L. Leach, Secy.; D. M. Kelley, Mgr.; will deal in and repair automobiles; machinery installed.

Ky., Louisville—Automobiles.—Motor Sales Co., capital stock \$6000, inceptd. by Addison W. Lee of Louisville, Hamilton O. Herr and Robt. W. Herr, Jr., both of St. Matthews, Ky.

Md., Baltimore—Garage.—Austin C. Stoneburner (V.-P. Jas. W. Ramsey Co., 116-118 S. Hanover St.) will build public garage at 905-907 W. North Ave.; accommodate 16 cars; site 90x40 ft.

Mo., Kansas City—Automobiles.—Western Motor Co., capital \$15,000, inceptd. by John Scripps, Fred C. Bader and Asher C. Jones.

Mo., St. Louis—Automobiles.—Wasmann & Miller Automobile Co., capital stock \$2000, inceptd. by Elvir Wasmann, Tony Miller and May Miller.

S. C., Charleston—Automobiles.—Automobile Transportation Co., 261 Meeting St., inceptd.; Santo Sottile, Pres.; James Sottile, V.-P.; Edgar E. Hortman, Mgr.

S. C., Columbia—Automobiles.—DuPre Automobile Co., capital stock \$15,000, inceptd. by E. M. DuPre, Pres.; M. J. McCool, Secy.-Treas.

S. C., Gaffney—Garage.—J. A. Carroll let contract Builders' Supply Co., Gaffney, to erect garage; brick; cost about \$3000.

Tex., Marble Falls—Garage.—W. B. Whitaker is reported to erect concrete garage

Va., Staunton—Cycle Cars.—Falcon Cyclecar Co., M. W. Mercereau, Pres., will mfr. cycle cars; has buildings; machinery arranged for; F. R. Hoyt, Ch. Engr. and in charge of production; W. A. McDermid, Secy. and Sales Mgr. (Previously noted inceptd., \$150,000 capital.)

Mo., Joplin—Garage.—Kale Garage Co., 3d and Joplin Sts., is reported to erect garage.

W. Va., Wheeling—Garage.—Trimble & Johnson are reported to erect garage and display room. (See Stores under Buildings Proposed.)

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Ky., Louisville.—Louisville & Nashville R. R., W. H. Courtenay, Ch. Engr., will build repair shops at South Louisville; use about 600 tons structural shapes; let contract McClintic-Marshall Construction Co. of Pittsburgh, Pa.

Tenn., Chattanooga.—Cincinnati, New Orleans & Texas Pacific Ry., C. Dougherty, Ch. Engr., Cincinnati, O., will build lately noted structure for repairing and painting passenger coaches; shop probably 300 ft. long, 106 ft. wide, of reinforced concrete.

ROAD AND STREET WORK

Ala., Anniston.—Calhoun County Comms. have \$6000 available to construct 2 mi. macadam road; W. S. Keller, State Highway Engr., Montgomery, Ala.; Geo. D. Harris, County Engr., Piedmont, Ala. (Contract lately noted let to Goodrich & Crinkley, Anniston, for 1 mi. Piedmont and Jacksonville Rd.)

Ark., Cotton Plant.—Cotton Plant Improvement Dist. No. 1 organized to construct about 10 mi. concrete sidewalk; R. B. Eggleston, Engr., Cotton Plant, prepared plans.

Ark., Helena.—City is arranging for paving of Porter St., Cherry St. to city limits, Paying Dist. No. 11; let contract; issued \$37,500 bonds. Address The Mayor.

Ark., Little Rock.—Comms. of Street Improvement Dist. No. 220, H. A. Bowman, Chrmn., will construct 18,000 sq. yds. pavement, including necessary grading, curbing, guttering, etc.; bids until Feb. 17; E. A. Kingsley, Engr. for Dist.

Ark., Little Rock.—Street Improvement Dist. No. 228, Wallace Townsend, Attorney, 1102 State Bank Bldg., will construct sidewalks and grading; bids until Feb. 9; plans and specifications obtainable at office of H. Levinson, Supt. Public Works. (See Machinery Wanted.)

Fla., Bartow.—City, R. C. Hatton, Mayor, let contract to West Construction Co., Chattanooga, Tenn., to construct 15,000 yds. asphaltic concrete paving; amount available, \$130,000; H. S. Jaudon Engineering Co., Engr., Savannah, Ga. (Lately noted.)

Fla., Bradenton.—City will construct paving; concrete, asphalt surface and brick; \$100,000 available; bids not yet asked; C. A. Brush, Engr.; S. C. Corwin, Com. Public Works.

Fla., Tampa.—Comms. of Public Works, D. B. McKay, Chrmn., will construct 3800 sq. ft. sidewalks, etc.; bids until Feb. 3. (See Miscellaneous Construction.)

Fla., Marianna.—Jackson County Comms. will construct following hard-surfaced roads: No. 1, from Bascom to Neals Landing, about 8 mi.; No. 2, Marianna and Campbellton road, north, known as Emanuel White road, about 6 mi.; No. 3, from Jacobs to Graceville, about 8 mi.; No. 4, Chipley west to Leavins Bridge, about 8 mi. (1 mi. of which has been contracted for); No. 5, from Arch Hamilton's on Sneads and Dellwood road to connect with Sneads and Cypress road; No. 6, Joe Pittman road from Campbellton and Gordon to Joe West place, about 2 mi.; No. 7, from Jake Peeler's place north through Malone to Alabama line, about 5 mi.; No. 8, from Marvins Chapel via Brazton's Star and Merritt's road; No. 9, Cypress Creek road from Cottondale to county line, about 8 mi.; bids until Feb. 21. (See Machinery Wanted.)

Ga., Trenton.—Dade county is reported to vote on bonds for road construction. Address County Comms.

Ga., Midville.—Town will improve sidewalks and streets at cost of \$2000; bonds lately noted; no bids; J. R. Worth, Mayor.

La., Lafayette.—City is reported to have let contract Aberdeen Construction Co., Aberdeen, Miss., for 24 mi. cement sidewalks.

La., New Iberia.—City let contract H. B. Sealey of New Iberia for cement sidewalks.

Ky., Lexington.—Fayette County Comms. considering calling election to vote on \$500,000 bonds for road improvements.

La., Morgan City.—City let contract W. A. Prather, McDermott, Ark., at \$32,047 to construct 29,032 sq. yds. cement sidewalks and 785 ft. curbing. Maurice D. Shannon, Mayor. (Call for bids lately noted.)

La., Ponchatoula.—City let contract Chas. Strecker, Hammond, La., to build about 5 mi. cement sidewalks; M. F. Tucker, Mayor. (Call for bids lately noted.)

La., Ville Platte.—City let contract Claude A. De Jersey, Washington, La., at \$12,000 to lay 9000 lin. ft. concrete sidewalk and curb; F. S. Robert, City Engr. (Previously noted.)

Md., Annapolis.—Anne Arundel County Comms. will build section of State highway along Mountain road between Annapolis Blvd. and Armiger, distance 1 mi.; bids until Feb. 17; E. T. Hayman, Road Engr. (See Machinery Wanted.)

Md., Baltimore.—State Roads Com., O. E. Weller, Chrmn., 601 Garrett Bldg., asks bids until Feb. 17 to build 4 sections of State

Highway, about 13.44 mi., in Garrett, Harford, Cecil and Worcester counties. (See Machinery Wanted.)

Md., Baltimore.—City let contract No. 80 to Martin J. Beach, 808 American Bldg., at \$72,575.00; vitrified brick. (Call for bids lately noted.)

Md., Catonsville.—Town will construct 600 ft. concrete sidewalk on Frederick Ave. west from Melvin Ave.; Peter Pressler & Son, Contrs.

Md., St. Mary's City.—Wm. P. McDonald Construction Co. of Mt. Vernon, N. Y., has contract at \$37,361 to pave 5.38 mi. road between St. Mary's City and Leonardstown. (Lately noted.)

Miss., Tupelo.—Lee county, J. M. Witt, Clerk, will, upon sale of bonds, construct previously-noted roads; \$40,000 authorized.

Miss., Waynesboro.—Wayne county will construct previously-noted roads; \$10,000 authorized; W. A. Bodie, Clerk.

Mo., Independence.—Jackson County Commissioners let contract Davidson Construction Co., Kansas City, at \$25,180 to macadamize Blue Ridge Blvd. (Lately noted.)

Mo., Kansas City.—Jackson County Commissioners, Independence, Mo., let contract Kansas Crusher Co. at \$25,691 to construct Oak Grove and Sni Mills Rd.

Mo., Springfield.—City will pave various streets during year, material to include concrete and asphalt concrete; C. E. Phillips, City Engr.

Mo., St. Louis.—City let following contracts for street improvements: Eyermann Construction Co., St. Louis, at \$238, Illinois Ave., Chippewa St. to Broadway, brick paving; at \$5946, Alabama Ave., Iron to Fillmore St., brick paving; at \$7743, Taft Ave., Morgan Ford Rd. to Ridgewood Ave., Telford with oil treatment; Shranka Construction Co., St. Louis, at \$7780, Cora Ave., Natural Bridge Ave. to Margaretta Ave., brick; John McMahon, at \$38,461, 10th St., Brooklyn to Hebert St., brick; Ruecking Construction Co., St. Louis, at \$10,800, Wisconsin Ave., Chippewa St. to Broadway, brick; at \$7915, Beethoven Ave., Ford Rd. to Ridgewood Ave., Telford with oil treatment; Granite Bituminous Paving Co., St. Louis, at \$9916, Kings Highway, Eager Rd. to McKee Ave., bitulithic; at \$4347, Cora Ave., Page Blvd. to Easton Ave., bitulithic.

N. C., Charlotte.—City let contract to W. S. McLellan, Pineville, N. C., for 12,000 sq. yds. cement sidewalk paving and J. W. Haas of Charlotte for 15,000 sq. yds. cement sidewalk paving; former contract also includes 4600 lin. ft. straight concrete curb, 1000 cu. yds. grading and 2400 lin. ft. concrete footing; latter contract, 1000 yds. grading, 1500 ft. footing and 10,236 ft. curb.

N. C., Graham.—Town will pave streets and sidewalks; issued \$50,000 bonds. R. G. Foster, Town Secy.

N. C., Halifax.—Enfield township, Halifax county, will construct previously-noted roads; bonds \$69,000; J. Waldo Whitaker, Clerk Board of Trustees.

N. C., Oxford.—Town will improve streets and construct sidewalks; issue \$10,000 of bonds. Address Town Clerk.

N. C., Taylorsville.—Alexander county is reported as considering election to vote on bonds to construct roads. Address County Comms.

Tenn., Chattanooga.—Hamilton County Road Com. let contract McIsaac & Gentry, Chattanooga, at \$23,396.80 to pave Main Ave., North Chattanooga, from Frazier Ave. to Charles St.; 2335 ft.; concrete curb and gutter; storm sewer.

Tenn., Greenville.—Greene County Pike Com., H. J. Wisecarver, Secy., asks bids until February 24 to grade about 130 mi. road; R. O. Gallaher, Ch. Engr. (See Machinery Wanted.)

Tenn., Lawrenceburg.—Town is reported as considering issuance of \$15,000 to \$20,000 bonds to improve streets. Address Town Clerk.

Tenn., Manchester.—Coffee county contemplates constructing 150 mi. road; probably vote on \$150,000 to \$250,000 bonds. Address County Comms.

Tex., Bryan.—City will grade and pave intersecting streets to Main St.; amount of work involved, \$12,000, city's part; date of opening bids not set; Carson & Adams, Engrs.; W. W. Harris, Mayor. (Lately noted as to vote April 7 on \$12,000 bonds.)

Tex., Cameron.—Road Dist. No. 6 in Milam county votes Feb. 21 on \$100,000 bonds to construct roads. Address County Comms.

Tex., Clarksville.—City Council is considering \$20,000 bond issue to pave streets. Address The Mayor.

Tex., Denton.—Good Roads Com. of Chamber of Commerce decided to withdraw petition for \$300,000 road bond election ordered for Feb. 21, and will arrange for more compact district. Address County Comms. (Lately noted.)

Tex., Galveston.—Galveston County Commissioners instructed County Surveyor to prepare plans and specifications for grading and shell 3 mi. of road on Bolivar Peninsula between Capien and Gulf View. (Lately noted.)

Tex., Gainesville.—Cooke County Comms. rescinded action calling for election on Feb. 7 to vote on \$700,000 bonds to construct roads. (Lately noted.)

Tex., Gatesville.—Coryell county votes Feb. 14 on \$75,000 bonds to construct roads in Dist. No. 1. Address County Comms.

Tex., Gonzales.—Gonzales county will not vote on bonds for road construction. (Previous report incorrect.)

Tex., Kaufman.—Terrell and Forney Dist. of Kaufman county vote Feb. 24 on \$300,000 bonds for road construction. Address County Comms.

Tex., Lockhart.—Caldwell County Comms. will have J. J. Jansen of Agricultural Dept., Washington, D. C., survey roads and superintend building 1 mi.; also prepare plans and specifications for roads to be built with \$50,000 bond issue authorized. (Lately noted.)

Tex., Houston.—City let following contract for street paving: Creosoted Wood Block Paving Co., New Orleans, La., at \$18,350, Fannin St., Leeland to McGowen Ave.; at \$15,600, Fannin St., McKinney to Leeland Ave., and at \$17,912, Travis St., Leeland to McGowen Ave.; Texas Bitulithic Co., Dallas, at \$28,310, San Jacinto St., McGowen to Eagle St.; at \$34,125, Louisiana St., Pease to Berry Ave.; at \$9900, Anita Ave., Main to Baldwin St.; at \$14,500, McGowen Ave., Milam to Albany St.; at \$14,950, West Alabama Ave., Main St. to G. H. & S. A. tracks, and at \$13,850, McGowen Ave., Crawford Ave. to Aransas Pass tracks; Oakender Bros., Waco, at \$10,760, Leeland Ave., Crawford St. to Aransas Pass tracks.

Tex., Hempstead.—Huntsville Precinct of Waller county voted \$150,000 bonds to construct roads. Address County Comms.

Tex., Palmer.—Town will pave streets in business section, expending \$12,000. Address Town Clerk.

Tex., Pecos.—Reeves County Road Dist. No. 1 voted \$100,000 bonds for road construction and maintenance; work to begin upon sale of bonds; H. N. McKellar, County Judge. (Lately noted.)

Tex., Tyler.—Lindale Dist. of Smith county will construct roads; issued \$75,000 bonds; J. F. Odum, County Judge.

Tex., Waco.—McLennan County Road Dist. No. 2 will construct about 185 mi. macadam and gravel roads; R. J. Windrow, County Engr. (Lately noted as to vote Feb. 14 on \$1,075,000 bonds.)

Tex., Wharton.—Wharton county votes Mch. 5 on \$100,000 bonds for road construction and bridge repairing. Address County Comms.

Va., Lovingson.—Nelson county will vote April 1 on \$35,000 bonds to construct roads; build roads in spring; E. L. Kidd, Clerk.

W. Va., Fairmont.—Marion county, J. F. Phillips, Clerk, will construct roads this spring, Mannington Dist., previously noted, voting \$300,000 bond issue and Fairmont Dist. \$400,000.

W. Va., New Martinsville.—Grant Dist., Wetzel county, will grade and build dirt roads; \$150,000 available; L. E. Lantz, Secy. Road Comms. (Bonds previously noted.)

W. Va., Parkersburg.—Williams Dist. of Wood county votes Mch. 10 on \$70,000 bonds for road construction; Wm. Dudley, Clerk County Court. (Lately noted.)

SEWER CONSTRUCTION

Ala., Mobile.—City will construct extension of Northern Drain at cost of \$10,000. Wright Smith, City Engr.

Fla., Bradenton.—City will expend \$30,000 on sewer construction; plans not ready; C. A. Brush, Engr.; S. C. Corwin, Com. Public Works.

Fla., Fort Myers.—City let contract W. R. Wallace, Fort Myers, at \$11,950 to extend sewer system; 1250 ft. 12-in., 1490 ft. 24-in. and 670 ft. 30-in. vitrified sanitary and storm pipe; Davison & White, Engrs., Fort Myers. (Call for bids lately noted.)

Fla., Daytona.—City votes Mch. 24 on \$175,000 bonds for sewer and drainage system. Address The Mayor. (Lately reported.)

Ga., Austell.—City, C. J. Shelverton, Mayor, issued \$25,000 to construct sewers and water-works.

Ga., Shellman.—City voted \$15,000 bonds to construct sewer system. Address The Mayor (Lately noted.)

Ga., Jackson.—City will have plans prepared by J. B. McCrary Co., Atlanta, Ga., for sewer system; \$23,000 bonds authorized. (Previously noted.)

Ky., Paducah.—City will construct sewer system, beginning at Perkins Creek and probably extending to Trimble St.; \$60,000 to be available. Address The Mayor.

Md., Baltimore.—Board of Awards, Jno. Hubert, Acting Pres., will construct lateral sewers and house connections in Dist. No. 13-a, contract No. 131; 23,500 lin. ft. vitrified sewer pipe, 8 in. to 24 in. diam., and 19,500 lin. ft. vitrified pipe house connections; bids until Feb. 11 at office of City Register, City Hall; specifications obtainable at office of Sewerage Com., Harry W. Rodgers, Secy., 304 American Bldg. (See Machinery Wanted.)

Md., Kensington.—Town will petition Legislature for authority to issue \$60,000 bonds for sewer system and water-works. Address Town Clerk.

Mo., Chillicothe.—City let contract to Byron B. Stevens, Chillicothe, to lay 6000 ft. 12 in., 1600 ft. 15 in. and 1100 ft. 18 in. sewers; W. L. Wannamaker, City Clerk. Lately noted. (See Machinery Wanted.)

Mo., Memphis.—City let contract John Scott, Sr., Memphis, at \$753 to lay tile pipe sewer and construct septic tank; Rollins & Westover, Consult. Engrs., 420 Midland Bldg., Kansas City.

Mo., St. Louis.—Board Public Improvements, Wm. T. Findly, Secy., let contract N. B. Watter, St. Louis, at \$14,712 to construct Oakland Joint Dist. sewer, and John F. McMahon, St. Louis, at \$29,275 to construct sewer in Catian St., Dist. 1.

N. C., Davidson.—Town contemplates construction of sewer system. Address Town Clerk.

S. C., Sumter.—City will extend sewer system to embrace Baker St. Address The Mayor.

Tex., Houston.—City will construct storm sewers on Holman Ave. from Milam to San Jacinto Sts., etc.; cost \$16,000; bids until Feb. 7; E. E. Sands, City Engr. (See Machinery Wanted.)

W. Va., Huntington.—City will construct branch of Fourth Ward sewer from 5th Ave. on 29th St. to drain territory above 28th St.; length 1800 ft.; estimated cost, \$10,000. Address The Mayor.

TELEPHONE SYSTEMS

Ala., Anniston.—White Plains Telephone Co., capital stock \$5000, incptd.

Ga., Homerville.—B. A. Harvey purchased local telephone plant and contemplates extending system to Argyle and Du Pont.

N. C., Newland.—Newland Telephone Co., capital stock \$5000, incptd. by E. C. Guy of Newland, Wm. von Cannon and Fred W. von Cannon of Banners Elk, N. C.

Okla., Atoka.—Atoka Telephone Co., capital \$1000, incptd. by T. R. Williams, J. N. Roach, W. W. Betts and R. D. Lall.

Tex., Temple.—Southwestern Telephone & Telegraph Co., Dallas, Tex., advises will construct ½ mi. of conduit and lay considerable amount of cable; E. L. Smith, Engr., Fort Worth. (\$18,000 appropriation lately noted.)

Va., Victoria.—City, J. I. Banks, Mayor, is prepared to grant telephone franchise. (See Machinery Wanted.)

TEXTILE MILLS

Ala., Eufaula.—Sheetings.—Glenola Cotton Mills proposes improvements and repairs for higher grade cloth production.

Ga., Fitzgerald.—Cotton Duck, etc.—Fitzgerald Cotton Mills recently noted additional building will be 200x40 ft.; let contract to E. F. Pope; addition nearly complete; purchased 100 looms; cost of new machinery about \$50,000.

Ky., Louisville.—Woolen Goods.—Geo. Dunham, Starks Bldg., plans organizing company to build woolen mill.

Mo., St. Louis.—Embroidery and Laces.—A. F. Nagel Embroidery Works, 1605 N. Euclid Ave., completed plant; \$3000 building, 75x25 ft.; 2 10-yd. embroidery machines, electrical drive and other machinery, costing about \$7000. (Previously noted.)

N. C., Davidson.—Hosiery Yarns.—Deiburg Cotton Mill Co. plans capital increase to erect additional building and install new machinery.

N. C., Davidson.—Cotton Yarns.—Linden Mfg. Co. plans capital increase to erect additional building and install new machinery.

N. C., Kannapolis.—Shirring.—Patterson Mfg. Co. let contract to T. C. Thompson & Bros., Charlotte, and Birmingham, Ala., to construct additional building 240x78 ft., two stories; will add 10,000 spindles, etc. (Lately noted.)

WATER-POWER DEVELOPMENTS

N. C., Connellys Springs.—Connellys Springs Knitting Mills Co., D. B. Mull, Mgr., will build hydro-electric plant; develop 180 H. P.; construct concrete dam and 4 mi. transmission system, latter to cost \$3000; character of power-house not determined; total cost of plant \$6000; construction to begin in 60 days; material and machinery arrangements made. (Lately noted.)

Mo., Linn Creek.—Niangua Heights Development Co., R. G. Scott & Son, Engrs., is proceeding with construction of stone and concrete dam on Linn Creek stream for hydro-electric plant; 100 ft. long and 16 ft. fall; plant to develop 60 H. P.; total cost, \$5000; propose to install overshot wheel. (Previously noted as letting contract.)

N. C., Asheville.—Tokaway Power Co., capital \$1,500,000, reorganized by W. E. Moore and H. S. Mitchell of Pittsburgh and Geo. H. Wright of Asheville; proposes to construct water-power plants on Tokaway, Green and other rivers; no details ready.

S. C., Walhalla.—Walhalla Light & Power Co., capital \$10,000, inceptd. by W. A. Strother and Dr. J. W. Bell; let contract Quartermaster & McDonald to construct dam at shoals on Rhett tract, about 4 mi. from Walhalla, and develop electricity for lighting and power; dam to be about 125 ft. long, 12 ft. thick at base, 2 ft. thick at top and 15 ft. high; plant cost about \$20,000. (Lately noted.)

Tenn., Ovoca, P. O., at Chattanooga.—Trustees Widows and Orphans' Home of Knights of Pythias authorized H. W. Stratton, Supt., to install water-power plant to furnish electricity to light buildings and grounds and operate laundry and other machinery; lay 8-in. pipe to convey water from Lake Calanthe to point below Cascade Falls, where power-house will be erected; capacity, 250 to 300 lights; G. M. Whitson, C. E., Tullahoma, Tenn., to be in charge of installation.

WATER-WORKS

Fla., Bradentown.—City will extend pipe lines; daily capacity of water-works, 300,000 gals.; C. A. Brush, Engr.; bids will be advertised. (Lately noted.)

Fla., Bartow.—City votes Feb. 17 on \$60,000 bonds to extend and improve water-works. Address The Mayor.

Fla., Fort Myers.—City let contract F. S. Parkam, Jacksonville, at \$3000 for water-works improvements; 12,000 gals. capacity; 70 ft. 8-in. and 2750 ft. 6-in. water mains; 10 fire hydrants and gate valves; 6 crosses; 17 T's and 10 stoppers or plugs; Davison & White, Engrs., Fort Myers. (Call for bids lately noted.)

Ga., Austell.—City, C. J. Shelverton, Mayor, issued \$25,000 for water-works and sewer construction.

Ga., Blackshear.—City voted on \$5000 bonds to improve water-works. Address The Mayor.

La., New Orleans.—Water-works and Sewerage Board, F. S. Shields, Secy., 508 City Hall Annex, receives bids until Feb. 26 to erect brick building—pumping station No. 5, contract 61-D; work will require 20,000 cu. yds. excavation, 56,000 lin. ft. round piling, 20,000 ft. B. M. sheet piling and bracing, 3000 cu. yds. concrete, 52 tons structural steel and 20,000 lbs. steel rods. Lately noted. (See Machinery Wanted.)

Md., Baltimore.—Board of Awards, John Hubert, Acting Prest., will install filter equipment at Lake Montebello, contract No. 22; bids until Feb. 18; plans and specifications at office of Water Dept., Ezra B. Whitman, Water Engr., City Hall; portions of this work previously noted. (See Machinery Wanted.)

Md., Hagerstown.—Hagerstown Water Co. is reported as having plans prepared for impounding dam to cost about \$200,000.

Md., Kensington.—Town will petition Legislature for authority to issue \$60,000 bonds for water and sewer systems. Address Town Clerk.

Mo., Carrollton.—Water, Light & Transit Co., S. J. Jones, Prest., purchased and will install \$25,000 worth of machinery.

N. C., Davidson.—Town contemplates construction of water-works. Address Town Clerk.

N. C., Durham.—City is having cost estimates prepared by Gilbert C. White, Charlotte, N. C., with view to purchasing plant of Durham Water Co. or constructing plant with different supply source; city vote on \$500,000 bonds under consideration.

Okla., Stratford.—City will call election to vote \$35,000 bonds to construct water-works and electric-light systems; employed Benham Engineering Co., 435 American National Bank Bldg., Oklahoma City, Okla., to prepare plans and specifications, etc., and supervise construction.

S. C., Fort Mill.—City contemplates expending \$15,000 to construct water-works; include 120,000-gal. standpipe; C. S. Link, City Clerk. (Lately noted.)

Tenn., Dresden.—City issued \$27,000 water and light bonds. R. L. Suddath, Mayor.

Tenn., St. Elmo.—City Commrs. are considering construction of water-works to cost \$18,000 to \$20,000.

Tex., Beaumont.—City voted \$500,000 bonds to purchase, improve and operate Beaumont Water-Works Co.'s plant; purchase price \$400,000; remaining \$100,000 to be expended for improvements to include removal of intake to Bunn's Bluff, improvement and enlargement of filter plant, and extension of distributing system to various sections of city not now supplied with water; improvements recommended by Burns & McDonald, Engrs., Kansas City, Mo.; C. L. Scherer, City Engr. (Lately noted.)

Tex., San Augustine.—City contemplates voting about Mch. 1 on \$10,000 bonds to lay iron water mains.

W. Va., Wellsburg.—City voted \$15,000 bonds for water-works and \$1000 bonds for fire hose; G. W. Rine, Mayor. (Lately noted.)

WOODWORKING PLANTS

Ark., Clarendon.—Veneer.—Chicago Veneer Co. of Chicago, Ill., is reported to have purchased property of McKinnies Lumber Co. and to erect \$75,000 plant.

Ark., Little Rock.—Veneer and Barreis.—Sanitary Veneer & Barrel Co., capital \$500,000, organized with Homer I. Cuttenger, Prest., Indianapolis, Ind.; W. M. Kavanaugh, V.-P. and Treas., and W. D. Carmack, Secy., both of Little Rock; will build plant to mfr. patented veneer barrel; daily capacity 40,000. (Putnam Veneer & Lumber Co., Mr. Cuttenger, Gen. Mgr., lately noted contemplating erection of plant.)

Ark., Pine Bluff.—Veneer.—Chamber of Commerce is negotiating with Indiana company relative to establishing \$50,000 veneer plant.

Ky., Louisville.—Cooperage.—J. Schwarzwalder & Son Co. is having plans prepared for plant; erect steel and concrete building; operate machinery by electricity; Arthur G. Herb is Mgr.

La., Ponchatoula.—Boxes.—Bert Branch is corresponding with Michigan capitalists relative to establishing box factory.

Md., Hagerstown.—Carriages.—Hess Carriage Co. will enlarge facilities; expects to build 2000 vehicles next year.

N. C., Edenton.—Veneering.—Wilkes Veneer Co., capital stock \$15,000, inceptd.; Chas. S. Lippincott, Prest.; J. L. Wiggins, V.-P.; Chas. H. Wood, Secy.-Treas.; will operate veneer mill; daily output, 15,000 ft. veneer; has building and machinery.

N. C., North Wilkesboro.—Company affiliated with American Tool Co. of Charleston, W. Va., and Winston-Salem, N. C., is reported to build handle factory at Ferguson, about 15 mi. from North Wilkesboro; cost \$15,000 to \$25,000.

N. C., North Wilkesboro.—Handles.—J. H. Moore, Hickory, N. C., is reported to establish hardwood mill to mfr. axe handles.

N. C., Washington.—Staves and Headings.—Toledo Stave & Heading Co., capital stock \$50,000, inceptd. by John P. Fellers and Ruby E. Fellers of Washington, N. C., and Mary A. Paul of Toledo, O.

Tex., Palestine.—Furniture.—A. W. W. Wainwright is reported as contemplating erection of furniture factory.

Va., Roanoke.—Spokes and Handles.—Roanoke Spoke & Handle Co. (Jas. P. Garrett and M. W. Cutshale) will install additional machinery; present daily capacity 100 doz. 36-in. handles. (See Garrett Mfg. Co., also Machinery Wanted.)

Va., Roanoke.—Boxes, Interior Finish, etc. Garrett Mfg. Co., Norwich, Va., Jas. P. Garrett, proprietor, advises that plant of Crescent Box Co. (lately noted purchased by Garrett Mfg. Co.) is well equipped; will add some machinery, probably including tenoner and mortiser; Roanoke Spoke & Handle Co., Mr. Garrett and M. W. Cutshale, proprietors, operates spoke and handle plant in same building. (See Roanoke Spoke & Handle Co., also Machinery Wanted.)

W. Va., Martinsburg.—Buggies.—Berkeley Buggy Co., capital stock \$25,000, inceptd.; D. W. Shaffer, Prest. and Treas.; Ray Barney, V.-P.; Paul Martin, Secy.; will not mfr.

FIRE DAMAGE

Ala., Birmingham.—Caldwell-Watson Foundry & Machine Co.'s blacksmith and boiler department; estimated loss \$50,000.

Ala., Crichton.—W. B. Herrin's residence; John Laurendine's residence; loss \$12,500.

Ark., Atkins.—Commercial Hotel, owned by R. F. Cleveland; loss \$3500.

Ark., Magnolia.—R. S. Warnock's 2 buildings, occupied by Johnson & Martel and Souter Racket Store, loss \$10,000; H. A. Longino's building, loss \$5000; C. M. Fomly's store, loss \$6000.

Ark., Monticello.—State Agricultural College's dining hall; loss \$20,000.

Ark., Texarkana.—Baptist Orphans' Home, owned by Landmark Baptist Assn.; loss \$15,000.

Fla., Fort Myers.—Lee County Citrus Packing Co.'s plant, estimated loss \$250,000; Loftin Machine Co.'s shops.

Ga., Augusta.—J. A. Sumers' 2 buildings on E. Boundary; loss several thousand dollars.

Ga., Putney.—J. G. F. Putney's warehouse; loss \$5000.

Ky., Ewington.—John White's residence; loss \$5000.

Ky., Hampton.—Hardy Livery Co.'s barn; Cumberland Telephone Co.'s exchange, and 6 other building; loss \$50,000.

Ky., Hickman.—Elks' Clubrooms, building owned by W. A. Dodds; loss \$5000.

Ky., Mt. Sterling.—Mrs. Emily Jones White's residence; loss \$5000.

Ky., Scottsville.—Stock barn owned by Edward Bradley, assistant cashier Allen County National Bank; residence of Henry Pusey Gardner, cashier First National Bank; total loss \$10,000.

Ky., Wallace.—S. C. McKinnivan's residence; loss \$8000.

Ky., Williamstown.—E. T. Collins' residence.

La., Crowley.—G. B. Thomson's residence at Eastern Ave. and 3d St.; loss \$7000.

La., Houma.—Mrs. Adolph Guidry's residence; loss \$4000.

La., Mix.—Thos. Mix's saw mill.

La., Shreveport.—A. H. Rendall's building, occupied by Johnson Furniture Co. and others; loss \$16,000.

La., Shreveport.—Dixie Auto & Welding Co.'s machine shops and garage; estimated loss to building and contents \$23,000.

La., Shreveport.—J. C. Hester states loss on building (lately reported damaged) was but \$25 instead of \$3000.

Md., Rover.—Augustus R. Selby's flour and grist mill; estimated loss \$5000.

Miss., Columbus.—L. P. Doss' store, owned by C. F. Sherrad; loss \$4000.

Miss., Jackson.—Mississippi College's building, containing offices, chapel, etc.; loss \$50,000.

Miss., Parchman.—Commissary and Commissary Clerk's residence on State convict farm; Earl Brewer, Governor, Jackson, Miss.; loss \$10,000.

Mo., Kearney.—Pullian Bros.' store; loss \$20,000.

N. C., Apex.—Warehouse of Seaboard Air

Line Ry., W. D. Fancette, Ch. Engr., Norfolk, Va.

N. C., Durham.—Model Steam Laundry, owned by R. L. Lindsey; loss \$10,000.

N. C., Elk Park.—W. W. Lineback's store; T. R. Burgle's store; T. J. Ray's greenhouse; total loss \$15,000 to \$25,000.

Okla., Ada.—Choctaw Cotton Oil Co.'s pressroom and main machinery-room; estimated loss \$40,000.

Okla., Glencoe.—J. F. Briggs' store, loss \$4000; Mrs. A. F. Hoge's 2 buildings, loss \$8000; C. M. Vorhees' building, loss \$5000; S. E. McGee's rooming-house and 1-story stone building, loss \$5000; F. V. Reser's hotel, loss \$6000; B. F. Franklin's building, loss \$3500; G. W. Donart's building, loss \$15,000; Adams Hardware Co.'s building, loss \$3000.

Okla., Bloomfield.—Bloomfield Academy.

Okla., Marble City.—Dwight Indian Mission School's dormitory.

N. C., Fuquay Springs.—Farmers' Warehouse, owned by Motley Bros.; Banner Warehouse, owned by Adcock & Lea.

Tenn., Knoxville.—James Farlis' residence near Island Home Pike; loss \$3000.

Tenn., Oakdale.—Dr. John M. Cooper's residence and store building adjoining; loss \$5000.

Tex., Amarillo.—Amarillo Bank & Trust Co.'s building; C. O. Thompson Drug Co.'s store; Roach Wholesale Drug Co.'s building; estimated loss \$150,000.

Tex., Darwin.—Channel Coal Co.'s store; loss \$12,500.

Tex., Madisonville.—W. L. Knox's residence; loss \$3000.

Tex., Sugarland.—Imperial Sugar Co.'s mill and warehouse; estimated loss \$300,000.

Tex., Waco.—Waco Fuel Co.'s building at 13th and Mary Sts.; loss \$3000.

Va., Alexandria.—Herbert Bryant's Sons' fertilizer factory on river front near Lee and Montgomery Sts.; loss \$40,000.

Va., Broadway.—R. S. Clark's store; loss \$15,000.

Va., McGeheysville.—Willard Huffman's store; loss \$20,000.

Va., Petersburg.—W. Fletcher Hitchcock's residence on Boynton Plank Rd.; loss \$4000.

W. Va., Burnsville.—A. J. Mace's restaurant; Economy Store Co.'s building; E. N. Anderson's restaurant and residence; L. C. Lowther's store; Willis Cutlip's bowling alley; Burnsville Hardware Co.'s store; B. H. Wilfong's store; T. E. Jeffries' harness factory and dwelling; E. C. Dweller's store; reported loss \$20,000.

W. Va., Cabriston.—J. Cochran's dwelling; John Dent's residence; Todd & Johnson's store; Dent's Drug Store; total loss \$10,000.

W. Va., Moundsville.—Jas. L. Bonar's handle factory, loss \$5000; C. W. Witcherman's excelsior works, loss \$3000 to \$4000; building owned by Anti-Rattle Window Sash Co., loss \$4000.

W. Va., West Charleston.—Morgan Lumber Co.'s plant, offices, n.lli, kilns and material; estimated loss \$75,000; National Veneer Co.'s plant, fire and water damage, loss \$5000.

W. Va., Elkins.—Western Maryland Ry. depot, H. R. Pratt, Ch. Engr., Hillen Station, Baltimore; loss \$20,000.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

D. C., Washington.—Oscar Vogt, 405 Corcoran Bldg., Washington, is preparing plans for apartment-house at 7th St. and Pennsylvania Ave. N. E.; 4 stories; is receiving bids for construction.

D. C., Washington.—J. W. Gregg, 612 O St. N. W., will expend \$5000 to improve apartment-house at 1621 12th St. N. W.; N. R. Grimm, Archt., Bond Bldg., Washington.

Ga., Fitzgerald.—Bowen & Clare will erect store and apartment building. (See Stores.)

Ga., Macon.—Ell Elkan is reported to erect apartment-house at 855 Mulberry St. to replace burned structure; 4 stories in front, 5 stories rear; roof garden and summer-houses covering roof; 4 towers with open entrances which may be converted into sun parlors; 80x130 ft.; court between 2 front projections with concrete floor in entrance and tile floor in main vestibule; steel balcony in front of each apartment on all floors; exterior of marble up to second floor, remainder of red brick trimmed in gray brick; fireproof; terra-cotta roof; hot and cold water; steam heat; 21 suites; cost about \$100,000.

Mo., Kansas City.—Chas. E. Phillips will erect apartment-house at 4013-15 Harrison St.; 3 stories; brick and stone; 6 suites; cost about \$30,000; completion by June 1.

Mo., St. Louis.—Mary E. Conley will erect apartment-house; 3 stories; red brick; Carthage stone trimmings; mansard tile roof; 3 suites of 7 rooms and 2 baths; recessed marble showers; steam heat; vacuum cleaning system; garage for each apartment.

Mo., St. Louis.—Wenzel Zacek is having plans prepared by Leo K. Milberger, St. Louis, for 4-family flat.

Mo., St. Louis.—Anton Hagerdorn will erect 2-story flats at 805-07 Eichelberger St.; cost \$7000.

Mo., St. Louis.—Dr. Sebastian Klein will erect row of flats on Chippewa St. to cost about \$15,000.

Mo., St. Louis.—Avon Realty Co. has plans for store and apartment building. (See Stores.)

Mo., St. Louis.—W. J. Eaton will erect 2-story tenement house at 3118 Portia St.; cost \$3500.

Mo., St. Louis.—Andrew Craig will erect tenement-house at 3916-18 Lafayette St.; 2 stories; cost \$7000.

Mo., St. Louis.—C. T. Swinhart will erect two 2-story tenements at 2375-79 Clarence St.; cost \$8000.

Mo., St. Louis.—Wm. Loeffel will erect 2-story tenement-house at 1114-16 John St.; cost \$3000.

Mo., St. Louis.—Minnie Rasch will erect 2-story tenement-house at 4848 Branconier Pl.; cost \$3800.

Mo., St. Louis.—F. L. Dittmeier will erect 2-story tenement-house at 4200 Holly St.; cost \$4000.

Mo., St. Louis.—Philip Bauer will expend \$5500 (without mechanical equipment) to erect tenement-house; 36x52 ft.; brick; mill construction; gravel roof; cost of lighting, \$220; sidewalks, \$250; plans and construction by owner. (Lately noted.)

Okl., Tulsa.—Dick Borden will erect flat on Boston Ave.; 2 stories; brick; cost \$4500.

Tex., El Paso.—Crosby Co. has plans for store and apartment-house. (See Stores.)

Tex., El Paso.—V. E. Ware will erect brick tenement-house. (See Dwellings.)

Tex., El Paso.—Austin & Marr Investment & Construction Co. is reported to erect tenement-house. (See Contracts Awarded, Dwellings.)

Tex., El Paso.—Mayfield Building & Investment Co. will erect apartment-house. (See Dwellings.)

Tex., Fort Worth.—W. H. Gibbons has plans for apartment and store building lately noted. (See Stores.)

Tex., Houston.—John J. Hawes let contract to P. W. Trigg to erect apartment-house; 3 buildings; 45x65 ft.; cost (without mechanical equipment) \$13,000 each; frame and stucco; tar and gravel roof; Jos. Finger, Archt., 321 Union National Bank Bldg., Houston. (Lately noted.)

Tex., Houston.—C. E. Heidingsfelder opens bids about Feb. 1 to erect apartment-house at Crawford and Dallas Sts.; 67x122 ft.; cost (without mechanical equipment) \$36,000; ordinary construction; tar and gravel roof; cost of heating plant \$4000; electric wiring \$2000; Jos. Finger, Archt., 321 Union National Bank Bldg., Houston. (Lately noted.)

Va., Lynchburg.—Dr. E. F. Younger is reported having plans prepared to remodel building for apartments and office suites for physicians. (See Bank and Office.)

Va., Richmond.—E. R. Brown and others are promoting erection of 5-story apartment-house, including basement; 126x140 ft.; 16 suites of 4 rooms each; cost \$60,000.

W. Va., Charleston.—George Goetz will erect store and apartment-house. (See Stores.)

W. Va., Charleston.—D. Gates, care J. N. Gates Sons Co., will erect 3 or 4-story brick apartment or office building; cost \$50,000.

W. Va., Huntington.—Dr. A. K. Kessler will erect apartment-house at 8th Ave. and 1st St., also store and apartment-house on 3d Ave. (See Stores.)

ASSOCIATION AND FRATERNAL

Ala., Hokes Bluff.—Hokes Bluff Lodge, I. O. O. F., is reported to erect building to replace burned structure.

Ark., Texarkana.—B. P. O. E. will erect lodge building; cost \$30,000.

Ark., Walnut Ridge.—Fraternal Order of Eagles will erect building; 3 stories; shower baths, bowling alleys, etc.; cost \$15,000.

Fla., Deland.—Phi Kappa Fraternity of Stetson University is reported to erect chapter-house on the Boulevard.

Mo., Joplin.—Germania Society is reported to erect building.

Mo., Joplin.—I. O. O. F. is reported to erect building.

N. C., Granite Quarry.—Stone Lodge No. 273, I. O. O. F., will erect building; 2 stories; Rowan granite; 28x70 ft.; cost \$3000; lower floor for mercantile purposes; upper floor, lodgerooms and offices.

N. C., Leaksville.—Junior Order United American Mechanics is having plans prepared for lodge, store and office building; cost \$9000.

S. C., Greenville.—Y. M. C. A., L. C. Hardie, Secy., is considering erecting one or more additional stories to building; plans not made.

Tex., Austin.—B. P. O. E. reported to erect building at 7th and Colorado Sts.; 3 or 4 stories, swimming pool, bowling alleys, roof garden, etc.; cost \$45,000 to \$50,000.

Tex., Comfort.—Comm. for Aged and Or-

phan Home of Grand Lodge, Order of Hermann Sons of Texas, will receive plans until Feb. 10 for home; fireproof; 2 stories and basement; reinforced concrete and brick; construction to permit erecting additions later; 50 bedrooms, 2 dormitories to accommodate 30 beds each, 10 private and 2 general bathrooms; steam-heating plant; electric lights and water-works; cost \$40,000 to \$50,000; detailed information from John Windlinger, Grand Secy., O. D. H. S., P. O. Box 1091, San Antonio, Tex.

Tex., Richmond.—Morton Lodge No. 72, A. F. and A. M., will erect lodge building.

Tex., Terrell.—W. O. W. will erect brick building; 50x36 ft.

Va., Alexandria.—George Washington Memorial Assn. is reported to receive competitive plans from 12 architects (including Parker, Thomas & Rice, Union Trust Bldg., Baltimore, Md.) until Apr. 1 for memorial temple to George Washington. (Lately noted.)

W. Va., Parkersburg.—Masonic Temple Assn., W. T. Rittenhouse, Secy., plans to erect building; cost about \$100,000.

BANK AND OFFICE

Ala., Birmingham.—Interstate Mortgage & Bond Co., B. H. Cooper, Pres., is reported as having plans prepared by H. D. Breeding, 15 Watts Bldg., Birmingham, for office building on 1st Ave. between 19th and 20th Sts.; 10 stories; reinforced concrete and steel; white terra-cotta front; tile floors and marble wainscoting on first floor and hallways of other floors; steam heat; 2 passenger elevators; 85 offices on upper floors; bath parlors in basement; concrete slabroom and ribbed-glass partition; estimated cost \$100,000. (Lately noted.)

Ala., Fairfield.—Commercial Club will erect building for offices, etc. (See Miscellaneous.)

Ala., Gadsden.—Mrs. T. J. Strother is having plans prepared by Mr. Simpson for building on Chestnut St. between 3d and 4th Sts., to be occupied by Etowah Abstract Co.; one story; brick; fireproof.

Ala., Greensboro.—Straiton Bros. will erect store and office building. (See Stores.)

Ala., New Decatur.—Morgan County National Bank is having plans prepared for addition to bank building.

Fla., Bowling Green.—Bowling Green Bank is reported to enlarge and remodel building and arrange office suites on second floor.

Fla., Homestead.—Homestead Bank will erect addition; also additional story for offices.

Ga., Macon.—Citizens' National Bank will erect bank and office building at 3d and Cherry Sts.; reported to have stone and marble front; steel work, marble and terra-cotta construction on interior; fireproof; install 3 passenger elevators; construction to begin in about 60 days; completion by Nov.; cost \$250,000; bank wires Manufacturers Record: "Dimensions of lot 40x105 ft.; structure of steel construction; 12 stories and basement; architect to be chosen Feb. 7."

Ga., Stateville.—Bank of Stateville, L. J. Cooper, Pres., Waycross, Ga., is reported to erect bank building.

Ga., Savannah.—W. P. Baldwin is having plans prepared by Percy Sudgen, 20 Drayton St., Savannah, for office building; brick and steel; 4 stories; 60x90 ft.; steam heat; Barrett specification roofing; cost \$25,000.

Ga., Savannah.—Wage-Earners' Loan & Investment Co., 468 W. Broad St., has plans by Percy Sudgen, 20 Drayton St., Savannah, for bank and office building; brick, stone, terra-cotta and steel; Barrett specification roof; tile floor in bank; interior finished in marble; vaults; Acme hard plaster; steam heat; metal ceiling; tiling; gas and electric fixtures; store on lower floor; reported cost \$40,000; bids received until Feb. 12. (Lately noted.)

Md., Arlington.—Commercial Bank of Maryland, Arlington, is having plans prepared by Owens & Sisco, Continental Bldg., Baltimore, for bank building at Main and Belvedere Aves., West Arlington; 2 stories; about 50x60 ft.

Mo., Emma.—Bank of Emma will erect (in spring) fireproof building.

Mo., Joplin.—Empire District Electric Co. is reported to erect office building and warehouse at 6th and Joplin Sts.

Mo., St. Louis.—Mechanics-American Bank will expend \$8000 to alter office building at 500-10 Locust St.

N. C., Granite Quarry.—Stone Lodge No. 273, I. O. O. F., will erect store, lodge and office building. (See Association and Fraternal.)

N. C., Greenville.—James & Hassel have plans by Benton & Moore, Wilson, N. C., for

office building; 2 stories; 35x40 ft.; brick; tin roof; cost \$6000; contract let Jan. 31.

N. C., Roanoke Rapids.—First National Bank, C. A. Wyche, Pres., will erect bank building; 25x100 ft.; 3 stories; architects invited to submit plans. (See Machinery Wanted.)

N. C., Leaksville.—Junior Order United American Mechanics is having plans prepared for office, store and lodge building.

S. C., Charleston.—Fidelity Trust Co. will erect bank and dwelling at 401 King St.; cost \$17,000.

Tenn., Bristol.—John A. Mahoney acquired Citizens' Bank Bldg. and is reported to remodel; will replace brownstone front with plate glass, provide lobby, etc.

Tenn., Livingston.—Citizens' Bank & Trust Co. will expend \$3500 (without mechanical equipment) to erect bank building; 25x70 ft.; Carey's roofing; bids opened Feb. 1. Address proposals to T. B. Copeland. (Lately noted.)

Tex., Paris.—Gibraltar Life Insurance Co. is reported as having plans prepared for office and hotel building. (See Hotels.)

Va., Glade Spring.—Bank of Glade Spring is reported to erect bank building.

Va., Lynchburg.—Dr. E. F. Younger is reported to have acquired building at 1017 Church St. and as having plans prepared by Heard & Cardwell, First National Bank Bldg., Lynchburg, to remodel for offices for physicians and living suites of 6 rooms each.

Va., West Point.—State Bank of West Point, Walter Sparklin, cashier, opens bids Feb. 30 to erect bank, store and office building; 50x60 ft.; cost (without mechanical equipment) \$10,000; fireproof; metal or slate roof; electric lighting; archt. not selected. (Lately noted.)

W. Va., Charleston.—D. Gates, care of J. N. Gates Sons Co., will erect apartment or office building. (See Apartment-houses.)

W. Va., Wheeling.—Conservative Life Insurance Co. will erect office addition; 4 stories; brick and steel; fireproof; cost \$20,000.

W. Va., Wheeling.—People's Bank has plans by E. B. Franzheim, Schmulbach Bldg., Wheeling, for bank building; 5 stories; terra-cotta and reinforced concrete; cost \$80,000. (Lately noted.)

CHURCHES

Ala., Ensley.—St. John's Episcopal Church plans to erect building at Avenue G and 22d St.; C. H. Meharg, W. F. Wilcox, A. O. Gane and others, Comm.

Ala., Helena.—A. O. Von Herbulis, Archt., Birmingham, Ala., is reported preparing plans for completion of Roman Catholic Cathedral.

Ala., Mobile.—All Saints' Episcopal Church, John T. Cochran, Chrm. of Executive Comm., is reported to erect building; cost \$35,000.

Ark., Van Buren.—Presbyterian church, Rev. W. B. Miller, pastor, will erect building to cost \$15,000.

D. C., Washington.—Kendall Baptist Church, Rev. Theron Outwater, Pastor, 1312 B St. S. W., will expend \$10,000 (without mechanical equipment) to remodel and erect additions to building; fireproof partitions; tin roof; heating plant installed; electric lighting; Speiden & Speiden, Archts., 1403 New York Ave., Washington; date of opening bids not set. (Lately fully described.)

Fla., Pensacola.—Mt. Zion Baptist Church is having plans prepared by W. A. Hayfield & Co., Echols-Strong Bldg., Birmingham, Ala., for building.

Fla., Tallahassee.—Baptist church, Rev. J. D. Adeock, pastor, will erect building at Adams and College Sts.; first or main floor with auditorium and classrooms to seat 800, balcony to seat 500 additional; C. W. Bulger & Son, Archts., Praetorian Bldg., Dallas, Tex.

Fla., Tarpon Springs.—Methodist Church South, Rev. T. W. Tomkies, pastor, will improve interior decorations, install pews, etc.

Fla., Wauchula.—Methodist church will erect \$10,000 building. Address The Pastor.

Ga., Arabi.—Baptist Church is reported to erect building. Address The Pastor.

Ga., Arabi.—Methodist Church is reported contemplating erection of building. Address The Pastor.

Ga., Bainbridge.—First Baptist Church is reported to have plans for building to cost about \$15,000; W. C. Mathis, E. J. Willis, A. J. Callahan and others, Comm.

Ga., Columbus.—Catholic Chapel, Rev. Father Moulineaux, pastor, Opelika, Ala., is having plans prepared by T. W. Smith & Co., Garrard Bldg., Columbus, for chapel; brick.

Ga., Glennville.—Baptist church is having plans prepared by I. P. Crutchfield, Mgr.

Standard Investment Co., 406 Real Estate Bank Bldg., Savannah, for building; brick, stone and concrete block; metal roofing; patent plaster; hot-air heat; concrete cornice; cost \$6000; will receive bids until Feb. 7; plans on file at office of Archt.

Ga., Monroe.—First Baptist Church, Rev. D. W. Key, pastor, will have plans prepared by Wm. A. Edwards, Candler Bldg., Atlanta, for building; brick; cost \$25,000.

Ga., Savannah.—South Side Baptist Church, Rev. John S. Wilder, pastor, has plans by H. W. Witcover, Savannah, for building. (Lately noted.)

Md., Baltimore.—Huntingdon Baptist Church, Rev. Wm. J. Lockhart, pastor, 404 E. 31st St., plans to erect building on site of present structure; cost about \$50,000.

Md., Gaithersburg.—Catholic church is reported to erect building. Address The Pastor.

Miss., Bond.—First Baptist church will rebuild structure; 50x50 ft.; fireproof roof; indirect furnace heat; cost (without mechanical equipment) \$6000. (Lately reported damaged by fire.)

Mo., Poplar Bluff.—Christian Church plans to reconstruct building. Address The Pastor.

Mo., St. Louis.—Tyler Place Presbyterian Church, Russell and Spring Aves., Rev. John L. Roemer, pastor, is reported to enlarge auditorium.

N. C., Forest City.—Methodist church plans to erect building to cost about \$15,000. Address The Pastor.

N. C., High Point.—Hebrew congregation plans to erect synagogue. Address The Rabbi.

N. C., Lexington.—Lutheran Church, Rev. J. M. Senter, pastor, will expend (cost without mechanical equipment) \$10,000 to erect building; ordinary construction; slate roof; hot-air heat; Henry E. Bonitz, Archt., Wilmington, N. C. (Lately noted.)

N. C., Spencer.—Spencer Methodist Church plans to erect building to cost \$20,000. Address The Pastor.

N. C., Wilson.—African Methodist Episcopal Church lets contract Feb. 15 to erect building; 60x75 ft.; hot-air heat; cost \$15,000; Benton & Moore, Archts., Wilson.

Okl., Tulsa.—Rev. Milford H. Lyons is reported interested in erection of tabernacle at 6th and Main Sts.

Tenn., Nashville.—Belmont Methodist Church, Rev. W. W. Alexander, pastor, is reported to erect Sunday-school chapel, 60x120 ft., with seating capacity of 475, and church auditorium, 135x80 ft., with seating capacity of 650; cost \$50,000 to \$60,000.

Tex., Belton.—First Methodist Church will erect building; brick and stone; cost \$25,000. Address The Pastor.

Tex., Denton.—First Baptist Church is reported to erect building; cost \$40,000. Address The Pastor.

Tex., Palestine.—Grace Methodist Church is erecting tabernacle for use during construction of proposed \$20,000 building.

Tex., Santa Anna.—Methodist church will erect building; stone and brick; cost \$10,000. Address The Pastor.

Tex., Victoria.—Building Com., C. S. E. Holland, Chmn., First Presbyterian Church, asks plans from architects to be submitted Feb. 16 for \$40,000 brick building.

Va., Kenbridge.—Methodist Episcopal Church has plans by Herbert L. Cain, Richmond, for building; auditorium 36x36 ft.; Sunday-school room 29x37 ft. 6 in.; ordinary construction; steam heat to cost \$600; tin or Johns-Manville asbestos roof; rolling partitions; date of opening bids not set.

Va., Port Norfolk (P. O. Portsmouth).—Methodist Episcopal Church is having plans prepared by C. M. Major, Portsmouth, Va., to erect building at 2d and Broad Sts.; seating capacity 800.

Va., Richmond.—Randolph Street Baptist Church rejected all bids to erect building; is having plans revised and will be ready for new bids Feb. 15; main portion 50x100 ft.; Sunday-school annex 32x39 ft.; cost (without mechanical equipment) \$20,000; ordinary construction; tin roof; steam heat to cost \$1000 to \$1200; gas and electric lighting; concrete sidewalks; Herbert L. Cain, Archt., 103 Main St., Richmond. (Previously noted.)

W. Va., Bethany.—Christian church is reported to erect building to cost \$25,000 to \$30,000. Address The Pastor.

CITY AND COUNTY

Ala., Evergreen.—Jail.—Conecuh county will erect jail. Address County Commrs. (Lately noted to have let contract for additional cell work in jail.)

Ala., Montgomery—Almshouse.—Board of Revenue of Montgomery County, Thos. H. Edwards, County Engr., will receive bids until Feb. 23 to erect almshouse near Canelou; plans and specifications at County Engr.'s office.

Ala., Dothan—City Hall.—City will receive competitive plans from architects Feb. 16 (extended date) for city hall; R. W. Lisenby, Clerk. (Lately noted.)

Ala., Opelika—Station-house.—City, J. G. Palmer, Mayor, is erecting police station-house.

Ark., Argenta—City Hall.—City has plans by J. L. Howard, Little Rock, for proposed city hall; J. C. Faucette, Mayor.

Ark., Piggott—Jail.—Clay county receives bids until Feb. 2 to erect 2-story jail; B. B. Hollifield, County Judge.

Fla., Palmetto—Library.—City will erect Carnegie Library; cost \$10,000. Address The Mayor.

Ga., Griffin—Library.—A. K. Hawkes, Atlanta, Ga., will erect library and motion-picture building for children; hall with seating capacity of 300 to 400; city will furnish site and maintain structure; J. H. Smith, Mayor.

Ky., Louisville—Engine-house.—Board of Public Safety will erect engine-house at Bardstown Rd. and Maryland Ave.

Ga., Thomson—City Hall.—City will erect city hall. Address The Mayor.

La., Rayville—Jail.—Richland Parish Police Jury is having plans prepared by Favrot & Livaudais, New Orleans, for jail; will call for bids about Feb. 25.

N. C., Charlotte—City Hall.—City will remodel city hall at cost of about \$6000. Address The Mayor.

N. C., Concord—Jail.—Cabarrus county, L. A. Weddington, Chmn. of Building Com., is having plans prepared by Leonard A. Bellamy, 515 Commercial Bank Bldg., Charlotte, for jail and courthouse addition; jail to be connected with courthouse by bridge; several rooms will be added and made fireproof; will install steam-heating plant to heat both buildings; slate roof; electric lights; total cost, \$35,000. (Lately noted to award contract in February.)

N. C., Troutmans—Home.—Fredell County Commrs., Statesville, N. C., are having plans prepared for county home near Troutmans; main and two smaller structures; basement to contain laundry, heating plant and refrigerating plant; artesian well to be bored.

N. C., Winston-Salem—Jail.—Forsyth county is reported as having plans prepared by Frank P. Milburn, 710 14th St. N. W., Washington, D. C., to enlarge jail; is considering erection of additional story to 2 rear wings.

Tenn., Nashville—Fire Station.—Fire Dept., J. D. Alexander, Commr., will erect fire engine hall in Eastland section.

Tex., Dallas—City Hall.—City Commrs. will receive bids until Feb. 6 for plastering city hall at cost of about \$20,000. (Lately noted.)

Tex., Houston—Fire Station.—City is reported considering erection of fire station in Woodland Heights. Address The Mayor.

Tex., Hutchins—Jail, etc.—Dallas County Commrs. open bids Feb. 14 to erect jail and asylum; 30x70 ft.; cost (without mechanical equipment) \$12,000; reinforced concrete; tar and gravel roof; Woerner & Cole, Architects, 209 Sumpter Bldg., Dallas; address proposals to C. E. Gross, County Auditor. (Lately noted to erect hospital.)

Tex., Terrell—City Hall.—City has plans by Van Slyke & Woodruff, Fort Worth, Tex., for city hall; 100x100 ft.; cost (without mechanical equipment) \$40,000; fireproof construction; steam heat; electric lighting. (Lately noted voting \$40,000 bonds.)

Va., Richmond—Auditorium.—Council Comm. on Public Buildings will recommend \$10,000 appropriation to improve city auditorium.

COURTHOUSES

Ark., Hot Springs.—Garland County Commissioners, R. H. Mooney, Judge, receive bids until Feb. 23 to remodel courthouse; plans and specifications at office of Judge Mooney at Hot Springs and Theo. M. Sanders, Archt., Little Rock, Ark. (Lately noted to cost about \$40,000.)

Ga., Statesboro.—Bulloch County Commissioners will receive bids to improve courthouse at cost of about \$12,000; erect additions at each corner and rooms over corridors, providing 17 additional rooms; Horsford & Co., Architects, Eastman, Ga. (Lately noted.)

N. C., Concord.—Cabarrus county, L. A. Weddington, Chmn. of Building Com., is having plans prepared for jail and courthouse addition. (See City and County.)

DWELLINGS

Ala., Bessemer.—Jesse Edwards contemplates erecting number of residences.

Ala., Birmingham.—Bem Price, Archt., Empire Bldg., is preparing plans for 2-story frame residence and frame bungalow.

Ala., Birmingham.—Hewes Real Estate & Insurance Co. will erect 2 one-story frame dwellings; cost \$4000.

Ala., Birmingham.—Arnold Lumber Co. will erect 2-story frame residence; cost \$3000; day labor.

Ala., Birmingham.—A. B. Tanner is reported as having plans prepared by Miller & Martin, Birmingham, for 2-story frame residence.

Ala., Birmingham.—Ely Shortridge will erect 2-story brick veneer residence; cost \$3500; day labor.

Ala., Birmingham.—P. C. Kiker will erect residence; 2 stories; brick veneer; cost \$5000; day labor.

Ala., Mobile.—Jabez S. Arnold of Mobile Credit Co. is reported to have acquired 160-acre tract near Dawes to erect bungalow, cultivate Satsuma oranges and pecans; running water supplied from bored well and gasoline engine.

Ark., Little Rock.—Norris Ulmer will erect 2 five-room bungalows on W. 13th St.; cost \$4000.

Ark., Little Rock.—E. D. Bracy will erect 2-story frame residence at 2305 State St.; repair residence at 2304 Battery St.; remodel cottage 2309 Battery St.; erect 2-story residence 2321 Ringo St.; 2-story brick-veneer residence 2401 Broadway; 5-room bungalow 1045 College St.; 2-story frame residence 2217 Battery St.; cost \$23,500.

D. C., Washington.—H. Prescott Gatley, 13 Grafton St., Chevy Chase, Md., is having plans prepared by Hornblower & Marshall, 1410 H St. N. W., Washington, for residence at Quincy St. and Connecticut Ave. N. W.; cost \$10,000.

D. C., Washington.—Jas. R. Durity has plans by A. H. Jowenal for 2-story dwelling at 1345 Pennsylvania Ave. S. E.; cost \$4000; construction by owner.

D. C., Washington.—Chas. H. Taylor, 3459 Macomb St. N. W., will erect dwelling at 3454 Macomb St. N. W.; cost \$7000.

D. C., Washington.—Jerry Costello, 632 Delaware Ave. S. W., will erect 2 dwellings, 523 1st St. S. W.; 2 stories; cost \$6500; J. Germiller, Archt., 456 Louisiana Ave. N. W., Washington.

Fla., Daytona.—John B. Minnis, Knoxville, Tenn., is reported to erect residence.

Fla., Fort Pierce.—Frank Griffin of Griffin Nurseries Co. is reported to erect residence.

Fla., Jacksonville.—Wilson Boozer will erect 2-story frame dwelling on Oak St.; cost \$5000.

Fla., Jacksonville.—A. S. Gregory will erect 2-story frame dwelling on Walnut St.; cost \$3000.

Fla., Kissimmee.—C. Stratman, Washington, Pa., will, it is reported, erect residence.

Fla., Manatee.—E. P. Falconer is reported to erect dwellings.

Fla., Plant City.—Kio Robinson will erect 2 dwellings.

Fla., Sarasota.—Frank B. Ticknor will erect several residences.

Fla., Tarpon Springs.—B. C. Mayo will erect 11 cottages on Read Heights.

Fla., Zolfo.—Roberts & Skipper will erect 2 residences.

Ga., Adrian.—W. M. Bradley will erect residence; G. Lloyd Preacher, Archt., Augusta, Ga.

Ga., Albany.—J. Rosenberg has plans by H. E. Nash, Albany, for residence; frame; white finish plaster; shingle and tile roof.

Ga., Ashburn.—Mrs. Josie Baldwin will erect residence; frame; cost \$3000; P. E. Dennis, Archt., American National Bank Bldg., Macon, Ga.

Ga., Ashburn.—J. N. Raines will erect residence; frame; cost \$3000; P. E. Dennis, Archt., American National Bank Bldg., Macon.

Ga., Atlanta.—H. Strickland will erect 6 one-story frame residences; cost \$8400; day labor.

Ga., Atlanta.—Dr. F. G. Hudson will expend \$25,000 to erect residence; 2 stories; tile roof; Fred J. Orr, Archt., Athens, Ga.; date of opening bids indefinite. (Lately noted.)

Ga., Atlanta.—Cowan & Dunn will erect dwelling at 13 Westwood Ave.; 7 rooms; cost \$3200; day labor.

Ga., Athens.—S. Michael has plans by Hupp & Shelverton, Fourth National Bank Bldg., Macon, Ga., for residence; brick veneer; terra-cotta tile roofing; cost \$10,000.

Ga., Augusta.—J. M. Rainwater is having plans prepared by G. Lloyd Preacher, Dyer Bldg., Augusta, for residence; frame, brick, stone and marble; cost \$20,000.

Ga., Barnesville.—A. B. Matthews is having plans prepared by Morris & Morris, 525 Atlanta National Bank Bldg., Atlanta, for bungalow; 1½ stories; frame; stone foundations; electric lights; hardwood floors; probably tile roof; bids received about Feb. 15.

Ga., Columbus.—Harry L. Williams will erect residence; frame; colonial style; vapor heat; hardwood floors; cost \$7000 to \$8000; Hentz & Reid, Architects, 933 Candler Bldg., Atlanta.

Ga., Columbus.—Country Club will erect residence for caretaker, etc. (See Miscellaneous.)

Ga., Columbus.—Fred Fletcher will erect bungalow; frame; hardwood floors; imitation tile roof; furnace heat; cost \$5000; T. W. Smith & Co., Architects, Garrard Bldg., Columbus.

Ga., Cordele.—Christ Episcopal Church will erect rectory; Mayor Fred Harder, Chmn. of Conm.

Ga., Dublin.—Ira S. Chappell will erect residence; 2 stories; brick; P. E. Dennis, Archt., American National Bank Bldg., Macon, Ga.

Ga., Dublin.—K. J. Hawkins has plans by R. B. McGeekin, Dublin, for residence; 2 stories; wooden shingle roof; grates; hardwood floors; ordinary construction; electric lighting; cost (without mechanical equipment) \$6000; R. B. McGeekin, Archt., Dublin; day labor; materials purchased.

Ga., Dublin.—Vivian L. Stanley has plans by R. B. McGeekin, Dublin, for residence; wooden shingle roof; 2 stories; cost \$5000; ordinary construction; grates; electric lighting; R. B. McGeekin, Archt., Dublin; day labor; materials purchased.

Ga., Fort Valley.—Mrs. E. G. Thomas will erect residence; frame; cost \$3500; P. E. Dennis, Archt., American National Bank Bldg., Macon, Ga.

Ga., Lagrange.—Fuller E. Callaway is having plans prepared by Hentz & Reid, 933 Candler Bldg., Atlanta, for residence; Italian villa style; 20 rooms; probably hollow tile, cement, stucco and tile roof; cost \$35,000.

Ga., Reynolds.—J. A. Mathews will erect frame residence; metal roof; cost \$6000; Hupp & Shelverton, Architects, Fourth National Bank Bldg., Macon.

Ga., Sycamore.—J. W. Henderson is having plans prepared by Nisbet & Brown, Grand Bldg., Macon, Ga., for residence; brick veneer; metal-shingle roof; red-gum flooring; plumbing; electric fixtures; water supply with underground tank, pump, etc.; cost \$6000. (Lately noted.)

Ga., Sycamore.—L. J. Brown is having plans prepared by Nisbet & Brown, Grand Bldg., Macon, Ga., for residence; brick veneer; metal shingles; red-gum flooring; electric fixtures; water supply with underground tank, pumps, etc.; cost \$4500.

Ga., Thomaston.—Dr. K. S. Williams will erect residence; 2 stories; 8 or 10 rooms.

Ga., Unadilla.—Sam W. Bobbitt is having plans prepared by Nisbet & Brown, Grand Bldg., Macon, Ga., for residence; frame; metal roof; electric lights; cost \$3000.

Ga., Winder.—B. B. Jackson is having plans prepared by Morris & Morris, 525 Atlanta National Bank Bldg., Atlanta, for residence; frame; electric lights; furnace heat; cost \$3000; construction probably by day labor.

Ky., Louisville.—Francis Wilberding will erect frame dwelling at 179 Peterson Ave.; cost \$3800.

Ky., Louisville.—C. T. Thomas will erect frame dwelling at 213 Shawnee terrace; cost \$3400.

Ky., Louisville.—F. E. Short will erect brick-veneer dwelling at 2110 Eastern Parkway; cost \$3500.

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Ky., Louisville.—F. E. Short will erect brick-veneer dwelling at 2110 Eastern Parkway; cost \$3500.

Ky., Morganfield.—W. T. Drury contemplates rebuilding residence lately burned; plans not decided.

La., New Orleans.—P. B. La Grand will erect 2 double cottages; cost \$7500.

La., New Orleans.—Morris Sazer is reported to erect 2-story residence.

Md., Baltimore.—B. H. Henderson, 717 Equitable Bldg., will erect residence on Fairview Ave. near Grantly Ave.; 2 stories; frame; steam heat; slate roof; cost \$4500.

Md., Baltimore.—Frank Novak, 744 N. Kenwood Ave., will erect 500 dwellings on Harford Rd. site; cost about \$2000 each; brick construction. (Previously noted.)

Md., Baltimore.—C. E. May, 702 S. Wolfe St., is having plans prepared by Henry J. Tinley, 312 N. Charles St., Baltimore, for cottage at Lennox; Spanish tiled roof; 36x50 ft.; 2½ stories; frame.

Md., Baltimore.—T. Milton Jones, 1806 Madison Ave., will expend (cost without mechanical equipment) \$1500 each to erect 2 dwellings on Whitelock St.; 14x50 ft.; ordinary construction; Carey's roofing; steam heat; gas and electric lighting; cement sidewalks; plans and construction by owner; all contracts let. (Lately noted.)

Md., Baltimore.—Mt. Vernon Realty Co., John M. Eads, Pres., 500 E. 27th St., will erect 15 dwellings on Summit Ave. near Park Heights Ave.; 2 stories; porch front; steam heat.

Md., Baltimore.—Herman G. Engnoth, 601 Linwood Ave., is reported to erect 150 dwellings on Highland Ave. north of Fairmount Ave.; 2 stories; brick; cost \$200,000.

Md., Baltimore.—John M. Requaert, 55 Gunther Bldg., purchased site at Guilford for client who will erect residence to cost not less than \$20,000.

Md., Hamilton.—Evergreen Lawn Co. will erect 3 cottages on Fair Oak Ave.

Mo., Kansas City.—C. G. Crow and Eugene H. Goodwin purchased 2 lots on Walnut St. and will erect residence.

Mo., Kansas City.—D. J. Haff, 416 36th St., will erect residence on 56th St.

Md., Frederick.—Grayson H. Staley is reported to erect residence on College Park property.

Mo., Clayton.—Walter Holloway let contract to J. E. Earendt to erect frame and stucco dwelling; cost \$3000; Mrs. Lafon, Archt.

Mo., Joplin.—Fon L. Johnson, Sam C. Pearson and others purchased site and will erect 3 or 4 residences.

Mo., St. Louis.—Rudolf Heede will erect 2-story dwelling at 3634 De Tonty St.; cost \$4000.

Mo., St. Louis.—R. B. Smith will erect 2-story dwelling at 6107 Westminster St.; cost \$6500.

Mo., St. Louis.—W. T. Smith will erect 2-story dwelling at 4945 Murdock St.; cost \$4000.

Mo., St. Louis.—Leisner Realty & Building Co. will erect two 2-story dwellings on Berlin St.; cost \$10,000.

Mo., St. Louis.—Hyatt Building & Realty Co. will erect six 2-story dwellings at 1167-25 McCausland Ave.; cost \$18,000.

Mo., St. Louis.—Wm. White will erect 2-story dwelling at 5731 DeGiverville St.; cost \$4000.

Mo., St. Louis.—Leisner Realty & Building Co. will erect two 2-story 7-room slate-roof dwellings.

Mo., St. Louis.—Sam Koplar will erect 2 two-story dwellings at 4561-65 Columbia St.; cost \$7000.

Mo., St. Louis.—W. P. Robertson, Walnwright Bldg., is reported to expend about \$100,000 to erect number of 5 and 6-room brick and hollow-tile bungalows at Meridian, on Creve Coeur line.

Mo., St. Louis.—Henry Wright prepared plans for residence in Southmoor.

Mo., St. Louis.—Chas. A. Honig will erect residence in Hillcrest.

Mo., St. Louis.—Kensington Investment Co. will erect cottages on Elchelberger Ave.

Mo., Webster Groves.—Dr. G. M. Phillips will erect residence; frame; 32x36 ft.; cost \$4000.

N. C., Greenville.—W. L. Best lets contract Feb. 28 to erect dwelling; 2 stories; steam heat; cost \$5500; Benton & Moore, Architects, Wilson, N. C.

N. C., Greenville.—E. B. Ferguson lets contract Feb. 15 to erect dwelling; 2 stories; metal roof; cost \$5000; Benton & Moore, Architects, Wilson, N. C.

N. C., Newbern.—T. P. Ashford will erect residence on Broad St.

N. C., Wilmington.—D. L. T. Capps will erect 6 dwellings at 4th and Greenfield Sts.; 6 rooms; cost \$7200.

N. C., Wilson.—R. P. Watson has plans by Benton & Moore, Wilson, for alterations and additions to residence; 2 stories; frame; asbestos roof; cost \$6000.

N. C., Wilson.—J. A. Spiers has plans by Benton & Moore, Wilson, for residence; 2 stories; frame; slate roof; cost \$3500.

Okla., Tulsa.—C. E. Lynch will erect dwell-

ing at 1234 Baltimore Ave.; 2 stories; frame; cost \$5000.

Okl., Tulsa.—J. W. Mitchner will erect 4 dwellings on S. Utica St.; 1 story; frame; cost \$3450.

S. C., Johnston.—W. B. Outz will erect residence; G. Lloyd Preacher, Archt., Augusta, Ga.

S. C., Charleston.—Fidelity Trust Co. will erect bank and dwelling. (See Bank and Office.)

S. C., Greenville.—J. O. Cauble will erect dwelling on Pendleton St.; 2 stories; brick veneer; 61x69 ft.; cost \$10,000.

Tenn., Chattanooga.—W. S. Beck will erect residence.

Tenn., Memphis.—H. J. Rettew will erect two 5-room frame residences on Faxon Ave.; cost \$1000.

Tenn., Memphis.—W. B. Alsop, Nashville, Tenn., is reported to erect residence.

Tenn., Memphis.—Misses Amelia and Elizabeth Hein are reported having plans prepared by G. M. Shaw, Memphis, for residence; stone and brick.

Tenn., Memphis.—S. B. Anderson is having plans prepared by G. M. Shaw, Memphis, for residence; frame.

Tex., Dallas.—W. A. Thomas will expend \$3000 to erect residence; 38x52 ft.; ordinary construction; shingle roof; gas heat; electric lighting; plans and construction by owner. (Lately noted.)

Tex., Denison.—J. W. Harvey will erect 2-story 10-room frame residence; cost \$3000.

Tex., El Paso.—Phoenix-El Paso Co. will erect 2 brick bungalows; cost \$8700.

Tex., El Paso.—J. E. Neff will erect 2 brick bungalows to cost \$7000.

Tex., El Paso.—White Building & Improvement Co. will erect brick dwelling in East El Paso; cost \$3750.

Tex., El Paso.—Mayfield Building & Investment Co. will erect 2 brick bungalows to cost \$5000 and 2-story apartment-house on Guadalupe St.; cost \$6500.

Tex., Houston.—R. M. Chartian will erect residence on Howard St.; cost \$3075.

Tex., San Antonio.—Ed Melcher will erect residence on Romana St.; 2 stories and basement; 24 rooms; brick; cost \$30,000.

Tex., San Antonio.—D. Ausley will erect 2-story dwelling on Summit Ave.; cost \$3250.

La., Shreveport.—Home Construction Co. will erect 9 residences to cost about \$3500.

Tex., El Paso.—J. C. Worthington will erect 3 bungalows on Tularosa St.; cost \$8000.

Tex., El Paso.—V. E. Ware will erect 6-room cottage in cotton addition and brick tenement-house in Bassett's Addition; cost \$11,500.

Tex., Galveston.—J. C. Vinson will erect 2-story frame dwelling; cost \$5500.

Tex., Houston.—E. L. Neville will erect residence on Courtland Blvd.; 2 stories; brick and tile; 70 ft. 10 in. by 71 ft. 2 in.; terra-cotta and tile roof, with copper trimmings; 12 rooms, sleeping porches, den, halls and finished attic; 2-story garage and servant quarters in rear; cost \$30,000; B. P. Briscoe, Archt., Houston.

Tex., Victoria.—Max Bettin is receiving bids to erect 6 two, five and six-room residences.

Va., Lynchburg.—Mrs. Mary A. Sullivan will erect double house on Clay St. between 7th and 8th Sts.; brick; slate roof; cost \$5000.

Va., Middleburg.—Mrs. Russell Sage, New York, is reported to erect residence.

Va., Norfolk.—J. N. W. Porter will erect 2 two-story residences on 28th St. near Colonial Ave.; cost \$4000.

Va., Norton.—Robert Osborne, Gen. Mgr. of Norton Wholesale Grocery Co., will erect residence to replace burned structure; brick construction.

Va., Richmond.—C. F. and J. C. Hagner will erect detached 2-story frame dwelling on Park Ave.; cost \$3500.

Va., Richmond.—Walter C. Schaaf will erect 2 two-story brick dwellings on Venable St.; cost \$4000.

Va., Richmond.—Davis Bros., Inc., will erect 2 detached 2-story brick dwellings on Park Ave.; cost \$12,000.

W. Va., Bluefield.—A. T. Akers is receiving bids through T. T. Carter, Archt., Bluefield, to erect 2-story brick residence; cost \$3000.

W. Va., Bluefield.—Aaron Catzen will erect dwelling; 10 rooms; yellow pressed brick; verandas on 3 sides.

W. Va., Griffith (not a postoffice).—Lackawanna Coal & Lumber Co., W. L. Connell, Prest., Scranton, Pa., will erect about 300 miners' homes. (See Coal Mines and Coke Ovens.)

W. Va., Parkersburg.—O. S. Dennison contemplates erecting 4 two-story frame residences.

W. Va., Huntington.—C. M. Buchanan will erect 2 two-story brick residences; cost \$5000.

W. Va., Warwood.—E. O. Grimm has plans by Geo. H. Dieringer, Wheeling, for bungalow; 7 rooms; exterior of stucco on metal lath; roof of colored slate-finish asphalt shingles.

GOVERNMENT AND STATE

Fla., Daytona Beach.—Postoffice.—James Keenan is reported to erect building for postoffice; 50x50 ft.; concrete block.

Ga., Bainbridge.—Postoffice.—Treasury Dept., Oscar Wenderoth, Supervising Archt., Washington, D. C. Bids until Feb. 14 to erect complete (including mechanical equipment, interior lighting fixtures and approaches) U. S. postoffice; 2 stories and basement; ground area 3500 sq. ft.; non-fireproof construction; stone and brick facing; composition roof; drawings and specifications obtainable at office of custodian of site or at this office at discretion of Supervising Archt.

Ky., Mayfield.—Postoffice.—J. C. Speisht, Custodian, receives bids until Feb. 7 for painting and repairs to postoffice building; information on application.

Md., Baltimore.—Marine Hospital.—H. C. Carter, Custodian, opened bids for repairs, etc., at Marine Hospital; Singer-Pentz Co., 909 Equitable Bldg., Baltimore, is lowest bidder at \$10,247; included for mechanical equipment, \$3300. (Lately noted.)

Miss., Clarksdale.—Postoffice.—Treasury Dept., Oscar Wenderoth, Supervising Archt., Washington, D. C., opened bids to erect postoffice; Geo. Brecking, Chattanooga, Tenn., is lowest bidder at \$86,290 for limestone and Callahan-Mandi Co., Chicago, Ill., is lowest bidder at \$90,429 for sandstone construction. (Lately noted.)

Mo., De Soto.—Postoffice.—Treasury Dept., Oscar Wenderoth, Supervising Archt., Washington, D. C. Bids until Feb. 13 to construct complete (including mechanical equipment, interior lighting fixtures and approaches) U. S. postoffice; 2 stories and basement; ground area 3940 sq. ft.; brick facing, with stone portico and cornice; composition roof; fireproof construction except attic and roof; drawings and specifications obtainable from custodian of site or at this office at discretion of Supervising Archt.

S. C., Fort Moultrie.—Officers Quarters.—Government opened bids to erect 12 non-commissioned officers' quarters; 1 story; ordinary construction; shingle roof; Algernon Blair, Montgomery, Ala., is lowest bidder at \$17,736; W. C. Abbott, Capt., Constructing Q. M. (Lately noted.)

Tex., Fort Bliss.—Barracks and Stables.—A. P. Watts, Constructing Q. M., receives bids in triplicate until Feb. 23 for constructing barracks and stables; information on application.

Va., Bedford City.—Postoffice.—Treasury Dept., Oscar Wenderoth, Supervising Archt., Washington, D. C., opened bids to erect postoffice; R. T. Abbott Construction Co., New York, is lowest bidder at \$40,900 for limestone and \$42,000 for sandstone construction; plans call for 2-story and basement structure; 4240 sq. ft. ground area; non-fireproof construction; brick facing; composition roof. (Lately noted.)

HOTELS

Ala., Athens.—J. H. Raney will expend \$4000 to erect cafe and hotel; 50x58 ft.; brick; metal roof; grates and stoves; cost of lighting \$100; plans and construction by owner. (Lately noted.)

Ala., Dauphin Island.—Dauphin Island Land Co. (Tidewater Securities Corp., J. M. Dewberry, Prest., Birmingham) will erect hotel; 60 rooms.

Ala., Huntsville.—Huntsville Hotel Co. is having plans prepared by Barnwell & Jones, Chattanooga, Tenn., for hotel; 87x135 ft.; 5 stories; fireproof; steam heat; electric lighting; 1 passenger and 1 freight elevator. (Previously noted as Struve-Love Hotel Co.)

Ark., Atkins.—R. F. Cleveland will rebuild hotel reported burned.

Florida.—Dr. Chas. E. Cossna, Chicago, is reported to have purchased 12,000 acres of land at Four-Mile Point, about 90 miles from Pensacola for colonization, winter resort, erect hotel, etc.

Fla., Oviedo.—L. T. Hunt opens bids about Feb. 10 to erect hotel and store building. (See Stores.)

Fla., Indian Springs.—Indian Springs Land Co., Wm. J. Greene, Prest., Chicago, is re-

ported to develop townsite, erect hotel, build roads, drain land, etc.

Fla., Tampa.—E. G. Stanford is reported as organizing company to erect hotel adjoining river front and Lafayette St. bridge, to be known as Hotel Visto Del Rio; solid rock foundation; modified Spanish renaissance style; 9 stories and basement; first story faced with cream-colored terra-cotta; remainder faced with golden buff tapestry brick; cream terra-cotta trimmings; fireproof construction; 400 rooms; cold-storage, heating plant, etc., in basement; first floor slightly elevated above street level with wide colonnade extending entirely around street fronts, with French windows opening into lobby; elevators; Japanese tearooms between lobby and second floor, 50x75 ft.; ballroom on second floor, 50x100 ft., and extending through 2 stories; roof garden; bridge to span court connecting vineyard and summer dining-rooms; bronze electric-light fixtures; cost, including equipment, about \$700,000; Willis R. Biggers, Archt., Tampa.

Fla., West Palm Beach.—Boyle & Godwin, Miami, are reported as to erect hotel at Banyan and Olive Sts.; 4 stories; concrete; 110 rooms.

Ga., Elberton.—Mrs. Mary Deadwyler-Vail, Athens, Ga., is reported to erect hotel to cost \$50,000.

Ga., Rome.—Broad Street Hotel Co. is reported to open bids Feb. 20 to erect hotel; 112x120 ft.; 5 stories; reinforced concrete; composition roof; direct low-pressure steam heat; 2 elevators; cost \$97,500; A. Ten Eyck Brown, Archt., Atlanta. (Lately noted.)

Ga., Moultrie.—J. B. Norman and J. A. Carlton are reported to erect hotel; 5 stories; fireproof; cost \$150,000.

Ky., Harlan.—J. H. Newberry has plans by Mr. Crouse, Winchester, Ky., for hotel; 40x90 ft.; 3 stories; brick; Carey's roof; steam heat; electric lighting; cost (without mechanical equipment) \$20,000; construction by owner. (See Machinery Wanted.)

Ky., Louisville.—Gault House Co. will expend \$25,000 to install dining-room on first floor of hotel.

Tex., Galveston.—Mrs. A. M. Sands is reported as having plans prepared by L. S. Green, Galveston, for hotel to be known as Miniature Galvez; 50 to 100 rooms; stucco; cost \$25,000.

Tex., Paris.—Gibraltar Life Insurance Co. is reported as having plans prepared by Griffith & Curtis, Paris, for hotel and home office building; not less than 6 stories. (Lately noted.)

Tex., Port Arthur.—Pleasure Pier Co. is reported to expend \$65,000 to overhaul Plaza Hotel, grade, level and surface pier fill, erect 2 concrete buildings for dance hall and auditorium.

Tex., Sulphur Springs.—Dr. J. B. Thomas is reported to erect hotel on Jefferson St.; brick.

Va., Petersburg.—Chamber of Commerce is reported promoting erection of hotel on W. Tabb St.; 125 rooms.

W. Va., Griffith (not a postoffice).—Lackawanna Coal & Lumber Co., W. L. Connell, Prest., Scranton, Pa., will erect hotel. (See Coal Mines and Coke Ovens.)

MISCELLANEOUS

Ala., Fairfield.—Clubhouse.—Commercial Club will erect building; 2 stories; store on lower floor; clubrooms and offices above.

Ark., Little Rock.—Natatorium.—J. W. Lipincott, 2009 W. 11th St., is having plans prepared by H. H. Newman, 1209 May St., Little Rock, for natatorium at Summit Ave. and 11th St.; 2 stories; pool proper, 60x250 ft.; "L" shape; depth varying from 2½ ft. to 4½ ft. in main section; section measuring 25x75 ft. will be 10 ft. deep; water supplied by wells drilled on ground; on ground floor will be 4 shower baths, 4 toilets, 110 dressing-rooms; balcony above pool to contain offices of management; will also contain lobby, restroom, 73 dressing-rooms and 294 ft. of walkway around and above pool; half of roof space open to fresh air and provided with canvas cover.

Ark., Texarkana.—Clubhouse.—Texarkana Country Club will expend \$7000 to erect clubhouse; plans not decided. (Lately noted organized by T. L. Temple and others.)

D. C., Washington.—Restaurant.—Aneus Collins, 2023 14th St. N. W., will expend about \$5000 to improve restaurant at 2023 14th St. N. W.

Fla., Daytona Beach.—Postoffice.—James Keenan is reported to erect building for postoffice. (See Government and State.)

Fla., Tampa.—Clubhouse.—Piney Point Country Club Incptd. by J. T. Richard, D.

Jones, A. W. Jones and others; will erect clubhouse, etc., on Piney Point.

Ga., Americus.—Stable.—W. E. Mitchell contemplates erecting stable; 50x120 ft.; brick.

Ga., Athens.—Stadium.—University of Georgia Athletic Assn. is reported as planning to erect concrete stadium over branch at Stanford Mead; cost \$15,000; Professor Sanford, athletic director.

Ga., Atlanta.—Sanitarium.—Vassar and B. M. Woolley are reported to have purchased buildings at 20-24 Cooper St. and will alter and improve for sanitarium.

Ga., Columbus.—Clubhouse.—Country Club will erect addition to clubhouse to contain dining-room and kitchen; will also erect dwelling for caretaker; frame construction; Wm. Morton, Secy.

Ga., Savannah.—Armory.—Chatham Artillery, R. J. Davant, Chrmn. of Building Com., will open bids Feb. 24 to erect armory; 24x140 ft.; 1 and 2 stories; ordinary construction; steam heat; gravel and tin roof; cost (without mechanical equipment) \$60,000; H. W. Witcover, Archt., National Bank Bldg., Savannah. (Contract previously reported let, but this probably rescinded.)

Ky., Louisville.—Sanitarium.—Mrs. Andrew Cowan, Miss Lucy Belknap and Mrs. J. B. Speed, Advisory Comm. of Board of Managers Red Cross Sanatorium, 1436 Shelby St., are reported to erect building adjoining present structure.

Ky., Pineville.—Hospital.—Dr. Mason Combs purchased site on Virginia Ave. and will erect hospital building; 2 stories; brick; 35x50 ft.; one general and 3 private wards; operating room, offices, etc.

La., Crowley.—Sanitarium.—Crowley Sanitarium (Dr. E. M. Ellis) is considering plans by Harold Raymond, New Orleans, for sanitarium; 2 stories; brick; 24 rooms. (Lately noted.)

La., New Orleans.—Clubhouse.—New Orleans Country Club is having plans prepared by Favrot & Llvandais, New Orleans, for clubhouse at Oakland Park; reported cost, \$100,000. (Lately noted.)

Md., Baltimore.—Hospital.—Hebrew Hospital, Dr. Harry Adler, Prest. of Directors, Monument St. near Broadway, will erect additional building as memorial to Emanuel and Joseph Mendels; 3 stories; pressed brick; steam heat; electric lights; 25 wardrooms; nurses' apartments, operating room, etc.; elevator; connected with administration building by corridors; cost \$50,000, including equipment.

Md., Catonsville.—Clubhouse.—Catonsville Country Club has plans by Walter M. Gleske, Gunther Bldg., Baltimore, to remodel junior clubhouse into dwelling and erect addition for use of steward.

Mo., Independence.—Civic Center.—J. A. Prewitt is chairman of committee promoting erection of civic center building; 3 stories and basement, latter to contain kitchen, game rooms, bowling alleys, public baths, swimming pool, etc.; gymnasium on first floor which may be converted into auditorium to seat 500; upper floors for study rooms, dormitories, etc.

N. C., Elizabeth City.—Hospital.—Drs. McMullan & Saliba let contract March 1 to erect hospital; 3 stories; 40 rooms; brick; steam heat; tile roof; cost \$25,000; Benton & Moore, Archts., Wilson, N. C. (Previously noted as Elizabeth City Hospital Co.)

N. C., Mt. Airy.—Hospital.—Mrs. B. A. Irvin is reported as to erect hospital.

S. C., Fort Mill.—Barns.—John J. Balles will erect barns, etc. (See Miscellaneous Enterprises.)

Tenn., Nashville.—Gymnasium.—Catholic Club is reported to erect gymnasium in connection with clubhouse; 4000 sq. ft. floor space; probable cost \$5000.

Tex., Dallas.—Clubhouse.—Dallas Club, Commerce and Poydras Sts., is reported to have tentative plans by Harre M. Bernet, Wilson Bldg., Dallas, for clubhouse; at least 6 stories; about 30 sleeping-rooms, gymnasium, swimming pool, etc.; cost, exclusive of site, \$250,000.

Tex., Port Arthur.—Dance Hall, Auditorium, etc.—Pleasure Pier Co. is reported to expend \$65,000 to erect concrete buildings for dance hall and auditorium, etc. (See Hotels.)

Tex., San Antonio.—Coliseum.—Harvey L. Page Co., 741 Houston St., San Antonio, states lot purchased and plans completed for coliseum; will be six months before bids will be asked. (Previously noted to cost \$100,000.)

W. Va., Griffith (not a postoffice).—Clubhouses, etc.—Lackawanna Coal & Lumber Co., W. L. Connell, Prest., Scranton, Pa., will erect 2 clubhouses, skating rink and bathhouse with individual lockers. (See Coal Mines and Coke Ovens.)

W. Va., Elm Grove—Stable—Springer Livery Co. is reported to erect livery barn on National Pike; 28x45 ft.

RAILWAY STATIONS, SHEDS, ETC.

Ark., Piggott.—Butler County R. R., W. N. Barron, Gen. Mgr., Poplar Bluff, Mo., is erecting freight depot on Front St.; frame; concrete-block foundation.

Ga., Ashburn.—Georgia Southern & Florida Ry., W. C. Shaw, Ch. Engr., Macon, Ga., is reported to erect union station.

Ga., Camilla.—Atlantic Coast Line Ry., E. B. Pleasants, Ch. Engr., Wilmington, N. C., will erect passenger station; brick; cost \$15,000. (Lately noted.)

S. C., Spartanburg.—Southern Ry., B. Herman, Ch. Engr., 1300 Pennsylvania Ave. N. W., Washington, D. C.; Charleston & Western Carolina Ry., A. W. Anderson, Gen. Mgr., Augusta, Ga., and Carolina, Clinchfield & Ohio Ry., Ward Crosby, Ch. Engr., Johnson City, Tenn., are reported to erect union terminal station; 2 stories; waiting-rooms on top floor; will lower tracks 3 or 4 ft., construct viaduct over tracks on Magnolia St.; provide baggage-room, express station and telegraph office on ground floor; electric elevator service; J. T. Odell, Supervising Archt., New York. (Lately noted.)

Tenn., Hico, P. O. at McKenzie.—Nashville, Chattanooga & St. Louis Ry., H. McDonald, Ch. Engr., Nashville, is reported to erect depot.

Tex., Rhonessboro.—Marshall & East Texas Ry., J. R. Lockwood, Ch. Engr., Marshall, Tex., will erect passenger and freight depot; 20x18 ft.; frame; shingle roof; stoves; construction by company's force. (Lately noted.)

Tex., San Antonio.—A. M. Acheson, Ch. Engr., Missouri, Kansas & Texas Ry. Co., Dallas, Tex., states tentative plans have been prepared for railway terminals, including passenger station, freight station and warehouses, tracks, yards, etc.; not yet authorized by management. (Total cost previously noted as about \$1,250,000.)

SCHOOLS

Ala., Double Springs.—State, W. F. Feagin, State Supt. of Education, Montgomery, plans to rebuild Winston County High School previously burned.

Ark., Fort Smith.—First German Lutheran Church is reported to erect school building; brick; 2 stories and basement; 37x37 ft.; heating apparatus, bowling alleys, etc., in basement; first floor for schoolrooms; second floor, auditorium; gymnasium in ell, 21x32 ft.

Ark., Mineral Springs.—City, it is reported, will erect brick school building to cost \$15,000. Address The Mayor.

Fla., Deland.—Phi Kappa Fraternity of Stetson University is reported to erect chapter-house on the Boulevard.

Fla., Fort Myers.—Lee County School Board, W. J. Odum, Chrmn., is having plans prepared by F. J. Kennard, Tampa, for high school; 10 rooms; cost about \$39,000. (Lately noted to erect 8-room structure, but these plans changed.)

Fla., Stuart.—City will erect 2 additional rooms and install new furnishings. Address The Mayor.

Ga., Athens.—University of Georgia Athletic Assn. is reported as planning to erect stadium. (See Miscellaneous.)

Ga., Fitzgerald.—Ben Hill County Board of Education is having plans prepared by W. A. Bayfield & Co., Echols-Strong Bldg., Birmingham, Ala., for high school. (Lately noted.)

Ga., Tate.—Fred J. Orr, Southern Mutual Bldg., Athens, Ga., is preparing plans for school buildings for Tate School and Assembly Grounds.

Ga., Whigham.—Whigham School Dist. votes Feb. 7 on \$9000 bonds for schools. Address Dist. School Trustees.

Ky., Berea.—Berea School Dist. voted bonds to erect school. Address Dist. School Trustees.

Ky., Elizabethtown.—Elizabethtown Graded School Dist. is reported to vote on \$25,000 bond issue to erect school. Address Dist. School Trustees.

Ky., Shelbyville.—Shelby County Board of Education and Trustees of Shelby Graded School plan to erect county high school; cost \$45,000 to \$50,000.

La., Hammond.—City is reported having plans prepared by W. T. Nolan, New Orleans, for schools. (Lately noted voting \$50,000 bonds.)

La., Lake Charles.—Marianite Sisters of the Holy Cross open bids Mch. 3 to erect school

and convent; 72x164 ft.; ordinary construction; composition roof; hot-water heat; Favrot & Livaudais, Archts., New Orleans; address proposals to Sister Mary of St. Raphael. (Lately noted.)

Md., Mt. Rainier.—Prince George's County School Board, O. B. Zantinger, Prest., 9th St. and New York Ave., Washington, D. C., is considering \$15,000 bond issue to alter present structure or erect additional building. (Lately noted.)

Miss., Hattiesburg.—Trustees of Mississippi Woman's College will erect brick administration and academic building; cost about \$60,000.

Miss., Mississippi City.—Mississippi School Dist. is reported to vote on \$10,000 bonds to erect school. Address Dist. School Trustees.

Miss., Purvis.—R. L. McNair, Clerk, states Lamar county will not issue bonds at present. (Previously reported.)

Mo., St. Louis.—Board of Education purchased site bounded by Blow St., Field and Robert Ave. as location for school.

N. C., Ayden.—City lets contract Feb. 20 to erect school building; 2 stories; 65x84 ft.; brick; composition roof; steam heat; cost \$15,000; Benton & Moore, Archts., Wilson, N. C.

N. C., Pineville.—Mecklenburg County Commrs., Charlotte, are considering Pineville, Derita and Huntersville as location for proposed farm-life school; Pineville voted \$20,000 bonds and other 2 towns are considering bond issues. (Lately noted as having selected Pineville as location, but subject opened for further consideration.)

Okla., Okmulgee.—E. W. Gill and F. F. Lamb are reported as erecting 2-story brick business building.

S. C., Allendale.—Allendale School Dist. voted \$15,000 bonds to enlarge school and retire \$10,000 bond issue. Address Dist. School Trustees. (Lately noted.)

Tenn., Camden.—City will probably vote latter part of Feb. on \$20,000 bonds to erect school. Address The Mayor. (Lately noted.)

Tenn., Clarksville.—Southwestern Presbyterian University, 701 College St., opens bids Feb. 16 to erect dining hall; 30x40 ft.; 2 stories; ordinary construction; composition roof; stoves; electric lighting; cost (without mechanical equipment) \$3000; C. T. Smith, Jr., Archt., Clarksville.

Tex., Hempstead.—School Board ordered election for Mch. 3 to vote on \$20,000 bonds to erect school.

Tex., Waco.—City will vote Feb. 16 on \$150,000 bonds for schools; J. H. Mackey, Mayor. (Lately noted.)

Va., Bristol.—City will open bids Mch. 16 to erect high school; 225x165 ft.; 2 stories and basement; Roman Ionic architecture; rough brick, stone and terra-cotta; stairways and corridors fireproof; combination fan and steam heating and ventilating; corridor floors of terrazzo; 10 classrooms; auditorium, seating capacity 1200; gymnasium, shower baths, laboratories, etc.; terraced approaches; cost of building and site, \$60,000 to \$75,000; plans ready about Feb. 15; Clarence B. Kearfott, Archt., Bristol, Tenn.; Henry Adams, 855 Calvert Bldg., Baltimore, Md., Engr. for heating and ventilating plant. (Lately noted.)

Va., Stephens City.—City is planning to erect high school to cost about \$14,000. Address The Mayor.

W. Va., Huntington.—Board of Education of Huntington Independent School Dist. ordered election for Mch. 7 to vote on \$500,000 bonds; \$300,000 to acquire site and erect high school; \$100,000 to erect ward schools and enlarge and improve existing structures, and \$100,000 to provide for exigencies. (Lately noted.)

W. Va., Wheeling.—Trimble & Johnson, Jefferson Ave., are reported to erect building for display of automobiles, buggies, etc.; garage in rear.

STORES

Ala., Adville.—Youngblood & Co. will erect store building.

Ala., Birmingham.—J. L. Yancey Real Estate & Insurance Co. will erect 1-story brick building at Alley B and 21st St.; cost \$3000.

Ala., Birmingham.—Scott Grocery Co. will erect 1-story brick building; cost \$3200.

Ala., Fairfield.—Commercial Club will erect club, office and store building. (See Miscellaneous.)

Ala., Florence.—Frank M. Perry will erect 2 stores on N. Court St.; 2 stories, with additional parapet front; 24x150 ft.

Ala., Ghrard.—Warren Richards is reported to erect 2-story brick store building.

Ala., Greensboro.—Stratton Bros. will erect

store and office building; brick and reinforced concrete; cement plaster.

Ala., Mobile.—C. W. Peters is having plans prepared by Hutchinson & Denham, Mobile, for store and office building; 2 stories, 25x120 ft.; brick, stone, marble and steel; composition roof; Acme plaster; electric lights; tile floor; ordinary construction; acetylene lighting from present plant; cost (without mechanical equipment) \$8000; bids opened.

Ark., Helena.—Interstate Grocer Co. is reported to erect building at Arkansas and Mobile Sts.; 105x210 ft.; 1 story; 33,000 sq. ft. floor space.

D. C., Washington.—B. F. Myers, Bond Bldg., prepared plans for \$25,000 business building.

D. C., Washington.—R. L. Montague, 503 7th St. N. W., is having plans prepared by Hunter & Bell, 1421 H St. N. W., Washington, for business building at 1312 4th St. N. W.

Fla., Dunnellon.—Bank of Dunnellon has plans by Louis A. Fort, Lakeland, Fla., for stores; 102x75 ft.; cost (without mechanical equipment) \$7000; ordinary construction; composition roof; cement sidewalks.

Fla., Jacksonville.—Julian Prewitt will erect 2-story brick building; cost \$8000.

Fla., Jensen.—Wm. Frederickson will erect 75x90-ft. 2-story brick building.

Fla., Kissimmee.—Mrs. L. W. Pilley will have plans prepared by R. H. Ludlam for 2-story brick building to replace burned structure.

Fla., Oviedo.—L. T. Hunt opens bids about Feb. 10 to erect store and hotel building; 75x80 ft.; 3 stories on ground floor; cost (without mechanical equipment) \$9000; fireproof; tin roof. (Lately reported damaged by fire.)

Fla., Sarasota.—Chas. A. Smith, St. Charles, Ill., and Clarence Smith, Prest. First National Bank, Waukegan, Ill., are reported to have purchased 9 lots and to erect business buildings.

Fla., Zolfo.—F. H. Williams, Crewsville, Fla., contemplates erecting business building.

Fla., West Palm Beach.—Boyle & Godwin are reported to erect business building at Banyan and Olive Sts.

Ga., Ashburn.—J. S. Shingler will erect business block; brick; 2 stories; P. E. Dennis, Archt., American National Bank Bldg., Macon, Ga.

Ga., Atlanta.—June Oglesby will expend \$4000 for alterations to building at 18-20 Marietta St.; day labor.

Ga., Atlanta.—Cole Investment Co. will erect 2-story brick building at 80-2 Mangum St.; cost \$8000.

Ga., Atlanta.—Mrs. Lena Swift Huntley will erect 1-story brick store building at 539-601 Peachtree St.; cost \$6000.

Ga., Atlanta.—C. J. Kamper has plans by A. N. Canton, Candler Bldg., Atlanta, for garages and store buildings; site 100x100 ft. (Lately noted.)

Ga., Atlanta.—A. K. Hawkes will erect 2 store buildings; brick; 1 story; plate glass; composition roof; cost \$4000; Hentz & Reid, Archt., 933 Candler Bldg., Atlanta.

Ga., Atlanta.—Forrest and George Adair will remodel 3 store buildings; 2 stories; brick; cost \$15,000; Hentz & Reid, Archt., 933 Candler Bldg., Atlanta.

Ga., Columbus.—Ilges Co. has plans by T. W. Smith & Co., Garrard Bldg., Columbus, for building at 1032-34 Broad St.; 2 stories; brick; pressed brick and terra-cotta front; furnace heat; tin roof; electric elevator; tiled vestibules; is receiving bids.

Ga., Dalton.—First National Bank acquired opera-house block and will, it is reported, erect business building.

Ga., Fitzgerald.—Bowen & Clare will erect 2-story building; plate-glass fronts; 2 stories on lower floor; apartments above.

Ga., Macon.—Johnson Bros. are having plans prepared by Happ & Shelverton, Fourth National Bank Bldg., Macon, for store building; 4 stories; brick; mill construction; cost \$20,000.

Ga., Savannah.—Wage Earners' Loan & Investment Co., 468 W. Broad St., will erect store and office building. (See Bank and Office.)

La., New Orleans.—Peter Laciura will erect brick building; 2 stories; cost \$5000.

Md., Baltimore.—W. P. Hudson, 137 E. Hughes St., will erect building on Hughes St. near Key Highway; 3 stories; brick; frontage 7 ft. 3 in., with rear side 37 ft. and length of 47 ft.; cost \$5000; E. Eyring & Sons, Archts., 900 S. 3d St., Baltimore.

Md., Princess Anne.—E. G. Newton is reported to erect brick store building.

Miss., Hermanville.—W. L. Short will rebuild store; 28x50 ft.; cost \$3000; plans not definite. (Lately reported burned.)

Mo., Joplin.—Clarence Lambert is reported to erect building.

Mo., Joplin.—C. A. Dieter is reported to erect building.

Mo., Joplin.—Christman Bros. are reported to erect building.

Mo., Joplin.—D. O. Witmer is reported to erect business building.

Mo., Joplin.—J. G. Starr is reported to erect building.

Mo., Joplin.—J. M. Leonard is reported to erect building.

Mo., Joplin.—O. H. Gentry is reported to erect building.

Mo., Joplin.—W. H. Landreth is reported to erect building.

Mo., Joplin.—W. P. Cleveland is reported to erect brick business block at 4th and Wall Sts.

Mo., St. Louis.—Paul Brown will erect addition to store at 521-23 Spruce St.; cost \$3000.

Mo., St. Louis.—Avon Realty Co. has plans by Preston J. Bradshaw, St. Louis, for building; 2 shops and 5-room suites above; matt brick; green tile roof; Gothic stone entrance; steam heat; hardwood floors; vacuum cleaning system; intercommunicating telephone system; cost \$15,000.

Mo., St. Louis.—Estelle K. Smith will erect mercantile building to cost about \$10,000.

N. C., Granite Quarry.—Stone Lodge, No. 273, I. O. O. F., will erect store, lodge and office building. (See Association and Fraternal.)

N. C., High Point.—Kirkman & Simmons will erect 25x100-ft. business building; 2 stories and basement; mill construction; plans being made.

N. C., Leaksville.—Junior Order United American Mechanics is having plans prepared for stores, office and lodge building.

N. C., Raleigh.—Mrs. S. A. Schloss, Wilmington, N. C., has plans by Frank B. Simpson, Raleigh, for theater and store building. (See Theaters.)

Okla., Tulsa.—Dr. S. G. Kenedy will erect business building at 13-15-17 S. Boston Ave.; one story; brick; cost \$3000.

S. C., Columbia.—A. Lorain will erect addition to building at 2210 Lincoln St.; cost \$3500.

Tenn., Shelbyville.—Jean & Nance will rebuild burned business building.

Tenn., Shelbyville.—E. C. Halmontaller will erect business building.

Tex., Dallas.—Southern Wholesale Grocery Co., E. H. Roach, Prest. and Gen. Mgr., will erect building on N. Lamar St.; 3 stories and basement; concrete and brick; 90x100 ft.; cost about \$65,000. (Lately noted.)

Tex., Dallas.—Nelma Marcus Co. opens bids about Feb. 16 to erect dry goods store; 96x100 ft.; cost (without mechanical equipment) \$125,000; fireproof; steam heat; electric lighting; electric elevator; Hubbell & Greene, Archts., Dallas. (Previously noted.)

Tex., El Paso.—Crosby Co. has plans by Frost & Frost, El Paso, for building at Myrtle and Kansas Sts.; 3 stories; brick; cost about \$50,000; construction to permit erection of 2 additional stories later; lower floor for stores; upper floors for apartments.

Tex., Fort Worth.—W. H. Gibbons has plans by E. E. Churchill, Fort Worth, for store and apartment-house; 50x120 ft.; 3 stories; cost (without mechanical equipment) \$25,000; gravel roof; heating and lighting not determined. (Lately noted.)

Tex., Goliad.—Dr. L. W. Chilton will erect brick building.

Tex., Lorraine.—W. L. Edmondson will erect store building; 50x100 ft.; 2 stories.

Tex., San Antonio.—Burns estate is reported to erect building at 510 E. Houston St.; 2 stories; brick; foundation to support 3 additional stories.

Tex., San Antonio.—Martin, Jones & Ryan will erect store building on E. Houston St.; cost \$6000.

Tex., San Antonio.—San Antonio Drug Co. is reported to have plans by Atlee B. Ayres, San Antonio, for building on St. Mary's St.; 8 to 12 stories; 140x190 ft.; reinforced concrete; fireproof; cost about \$350,000. (Previously noted.)

Tex., San Marcos.—J. M. Cape will erect building; 2 stories; fireproof; 75x90 ft.

Va., Lynchburg.—Mrs. Ellen M. Wall and others will erect 2 stores at 711-13 Main St.; brick and composition roof; cost \$16,000.

Va., Norfolk.—Spot Clothing Co., 401 Church St., has plans by Harvey Abramson, 346 Arcade, Norfolk, to remodel store fronts;

cost (without mechanical equipment) \$3000; metal ceiling; heart rift pine floor; tile vestibule; metal cornice; marble base under windows; owner taking bids.

Va., West Point.—State Bank of West Point, Walter Sparklin, cashier, opens bids Mch. 30 to erect store, bank and office building. (See Bank and Office.)

W. Va., Charleston.—George Goetz will erect store and apartment building on Main St.; 2 and 3 stories; brick; cost \$6000; J. W. Woltz, Archt., Waynesboro, Pa.

W. Va., Charleston.—Ed E. Cook contemplates erecting store and warehouse on Main St.

W. Va., Huntington.—M. H. Adams will erect 1 and 2-story store building; cost \$5000.

W. Va., Huntington.—Dr A. K. Kessler will erect store and apartment building on 3d Ave.; 60x200 ft.; 2 stores on first floor and apartments above; also apartment-house at 1st St. and 8th Ave.; 200x140 ft.

THEATERS

Ark., Little Rock.—Sol Gans acquired A. Stilwell estate equity in Park Theater at Capitol Ave. and Spring St., and will expend \$35,000 to complete building.

Ga., Atlanta.—J. B. Frost is reported to have purchased site at 409 Peachtree St.; probably to erect theater.

Md., Hagerstown.—Frederick W. Wright and associates will erect theater; seating capacity 2000.

Mo., Maplewood.—Mrs. N. R. Robinson, St. Louis; Robert A. Swink and A. B. Finch are interested in erection of Eagle Theater; 177x75 ft.; glaze brick; terra-cotta trimmings; seating capacity 2500; 1 story; 20-ft. ceiling; roof garden; cost about \$40,000.

N. C., High Point.—W. D. Simmons, owner and manager of Eagle Theater, will erect additional story to theater and install gallery and boxes.

N. C., Raleigh.—Mrs. S. A. Schloss, Wilmington, N. C., has plans by Frank B. Simpson, Raleigh, for Academy of Music; 2 stories; Spanish style; lower floor for stores, lobby and foyer, with offices above; auditorium in rear to seat, with gallery, about 1250; cost \$65,000. (Lately noted.)

Tex., Edna.—W. W. McCrory is reported to erect building to be occupied by Nich Nicholson for moving picture theater; brick; 25x90 ft.

W. Va., Griffith (not a P. O.).—Lackawanna Coal & Lumber Co., W. L. Connell, Prest., Scranton, Pa., will erect moving-picture theater. (See Coal Mines and Coke Ovens.)

WAREHOUSES

Ky., Louisville.—Louisville Pillow Co. is reported to erect storehouse to replace burned structure; 4 stories; brick; 80x140 ft.

La., New Orleans.—Jordy State Co. will not erect building as lately reported.

Md., Baltimore.—Eutaw Street M. E. Church, Rev. E. L. Hubbard, pastor, 412 W. Mulberry St., will erect warehouse on Eutaw near Mulberry St.; 4 stories.

Md., Baltimore.—Morgan Mill Work Co., Howard and West Sts., has plans by J. E. Laferty, 11 E. Pleasant St., for warehouse for storage purposes on North Ave.; 5 stories; brick construction; 124x160 ft.

Md., Baltimore.—C. D. Kenny Co. will expend \$30,000 (without mechanical equipment) to erect warehouse at Eutaw and Little Greene Sts.; 50x70 ft.; ordinary construction; slag roof; freight elevator costing \$2000; Baldwin & Pennington, Archts., Professional Bldg., Baltimore; bids due Feb. 4; contractors (lately noted) estimating. Edw. Brady & Sons, 1113 Cathedral St.; D. M. Andrew Co., Mt. Vernon Ave. and 26th St.; West Construction Co., 15 E. Fayette St.; J. J. Walsh & Son, 1533 Maryland Ave.; Cowan Building Co., 106 W. Madison St., all of Baltimore.

Md., Baltimore.—H. M. Rowe Co., 21 W. Fayette St., is having plans prepared by Walter M. Gleske, 65 Gunther Bldg., Baltimore, for storage warehouse at 624 N. Gilmor St.; 3 stories; brick and concrete; 40x75 ft.

Mo., Springfield.—Estes Warehouse & Commission Co. is reported to expend \$25,000 to improve warehouse.

N. C., Fayetteville.—Chamber of Commerce, J. D. Fletcher, tobacco demonstrator, is reported promoting erection of tobacco warehouse.

N. C., Newbern.—J. M. Mitchell (Chrmn.), C. L. Ives, J. S. Miller and others are committee to promote erection of two tobacco warehouses and prize; cost about \$10,000.

N. C., Fuquay Springs.—Adeock & Lea, it

is reported, will rebuild burned Banner warehouse.

N. C., Fuquay Springs.—Motley Bros., it is reported, will rebuild Farmers' Warehouse, recently burned.

Va., Alberta.—Alberta Development Co., J.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Ga., Atlanta.—E. Ragland let contract to Fulton County Home Builders, Atlanta, to erect two 2-story brick veneer apartment-houses at 211 Moreland Ave. and 433 Euclid Ave.; cost \$18,000; Lella Ross Wilburn, Archt., Atlanta.

Tenn., Memphis.—C. W. Heiskell let contract to J. H. Moselage to erect brick flat at 403 S. Driver St.; cost \$9000.

Tex., El Paso.—Company organized to erect apartment-house at California and Ange Aves.; cost \$24,000; 12 4-room apartments; brick; wood floors and trimmings; asbestos roofing; steam heat to cost \$2000; electric lighting to cost \$1000; cost of plumbing \$2000; Gibson & Robertson, Archts., El Paso; contract let to Geo. Beaudett, 823 Roosevelt St., El Paso. (See Machinery Wanted.)

Va., Norfolk.—M. Saunders will erect 2-story brick apartment-house at 31st and Granard Sts.; cost \$8000; H. L. Powell & Co., Contrs.

ASSOCIATION AND FRATERNAL

Ala., Birmingham.—A. F. & A. M., Woodlawn Lodge No. 525, let contract to Chas. W. Hall, Birmingham, to erect lodge, store and office building; 75x100 ft.; brick and frame; composition roof; cost \$30,000; cost of heating plant \$2000 additional; R. E. Posey, Archt., Brown-Marx Bldg., Birmingham. (Previously noted.)

Tex., Dallas.—Dallas Lodge, B. P. O. E., is reported to have let contract at \$16,800 to Buchanan & Gilder, Fort Worth, to erect building; 2 stories and basement; terra-cotta; electrical and other contracts, about \$3200 extra; H. A. Overbeck, Archt., Dallas. (Lately noted.)

BANK AND OFFICE

Ark., Little Rock.—Terminal Warehouse Co., S. J. Beauchamp, Prest., let contract to erect offices, etc. (See Warehouses.)

Fla., Tampa.—Tampa Savings & Trust Co. will expend \$40,000 (cost without mechanical equipment) to erect bank building; 26 ft. 2½ in. by 92 ft.; ordinary construction; Barrett's specification roof; electric lighting; Bonfoey & Elliott, Archts., Tampa; contract lately noted let to E. W. Parker, Tampa.

La., Gretna.—Jefferson Commercial and Savings Bank let contract to James Geary, New Orleans, to erect bank building; 2 stories; pressed brick; 47x52 ft.; ordinary construction; tile and composition roof; cost \$12,000; Favrot & Lavandais, Archts., New Orleans. (Lately noted.)

Md., Marion Station.—Bank of Marion let contract to Henry Pilchard, Pocomoke City, Md., to erect bank building; Gothic style; red brick; cost, including site and furniture, \$5000. (Lately noted.)

N. C., Durham.—Citizens' National Bank let contract to J. T. Salmon, Durham, to erect bank building; marble and granite; one story; 70x32 ft.; construction to permit erection of 6 additional stories; banking-room 35 ft. high, with gallery 32x24 ft.; safe-deposit boxes and vaults in basement; fireproof floors; wood frame and metal roof; cost (without mechanical equipment) \$26,000; cost of heating, \$1000; conduit system to cost \$300; Elliott & Emmart, Union Trust Bldg., Baltimore, Md.

N. C., Salisbury.—Vance Cotton Mills, A. C. Lineberger, Prest., let contract to Holbrooks & Bradshaw to erect office building; brick. (Lately noted.)

Tex., Abilene.—W. H. Graham let contract to R. C. Lewis, Abilene, at \$75,772 to erect 6-story office building; plumbing, heating, vacuum cleaner, mail chute, electrical wiring and fixtures not let; these to cost about \$22,000; M. L. Waller, Archt., 209½ W. 8th St., Fort Worth. (Lately noted.)

Tex., El Paso.—Union Bank & Trust Co. let contract to O. P. Kroeger to erect bank building at 105 N. Oregon St.; 3 stories; cost (without mechanical equipment) \$100,000; fireproof construction; Frost & Frost, Archts., Mills Bldg., El Paso. (Lately noted.)

Tex., San Antonio.—Mrs. Emma Dittmar let contract to erect 1-story addition to office and store building. (See Stores.)

E. Crafton, Secy., will receive bids until Feb. 15 to erect 2 tobacco warehouses to be completed by July 1; plans and specifications at Bank of Alberta.

W. Va., Charleston.—Ed E. Cook contemplates erecting store and warehouse on Main St.

CHURCHES

Ga., Jackson.—First Baptist Church let contract to Quartermus & McDonald, Walhalla, S. C., to erect building; white pressed brick; cost \$20,000.

N. C., Dallas.—Baptist Church, Rev. I. T. Newton, pastor, let contract to Howard M. Clemmer to erect building; brick; cost \$7000 to \$8000.

CITY AND COUNTY

Ark., Searcy.—Fire Department.—City let contract to Theo. Henderson, Searcy, to erect building for fire department.

Ga., Savannah.—Library.—Board of Curators, A. L. Tucker, Chrmn., let contract to D. P. Phillips, Savannah, to erect Carnegie library; 60x35 ft.; ordinary construction; tin roof; furnace to cost \$500; direct lighting; cost (without mechanical equipment) \$12,000; J. de Bruyn Kops, Archt., Savannah; also reported to erect \$75,000 Carnegie library as lately noted.

Ga., Vienna.—Jail.—Dooly County Commrs. let contract to Southern Structural Steel Co., San Antonio, Tex., and Birmingham, Ala., to furnish 4 cells for county jail; J. O. Smith, contracting agent, Buena Vista, Ga.

Ga., Warsaw.—Town Hall.—Town Council let contract to Frank Adams to erect town hall; frame; concrete foundation; main structure, 50x20 ft.; rear portion below main structure to contain 4 cells each 8 ft. square; cost \$3000; J. de Bruyn Kops, Archt., Savannah, Ga. (Lately noted.)

Va., Norfolk.—Armory.—City let contract to erect armory for Norfolk Light Artillery Blues to Richardson Construction Co., Norfolk, at \$25,162; plans call for brick structure; 2 stories; 91 ft. 2 in. by 146 ft. 2 in.; stone trimmings; ground floor of concrete; B. F. Mitchell, Archt., Norfolk; Brown & Lehman, Associate Archts. (Lately noted.)

COURTHOUSES

Ark., Heber Springs.—Cleburne County Commrs. are reported to have let contract at \$61,400 to Byrnes & McCauley, Fayetteville, Ark., to erect courthouse; 64x90 ft.; fireproof; tar and metal roof; steam heat; Clyde A. Ferrell, Archt., 210½ Louisiana St., Little Rock. (Lately noted.)

N. C., Raleigh.—Wake County Commrs. are reported to have let contract to W. B. Barrow, Raleigh, to remodel Supreme Court building, including construction of fireproof vaults through 5 stories; total cost \$40,000; H. P. S. Keller, Archt., Raleigh. (Previously noted.)

S. C., Yorkville.—York County Commrs., J. S. Brice, Chrmn. of Com., will expend \$74,000 (cost without mechanical equipment) to erect courthouse; 65x110 ft.; 3 stories; fireproof construction; red tile roof; cost of heating plant, \$2500; electric lighting; Wm. A. Edwards, Archt., Atlanta, Ga.; general contract (lately noted) let to Travers-Wood Co., Richmond, Va., and to Rock Hill Heating & Plumbing Co., Rock Hill, S. C., for heating and plumbing.

DWELLINGS

Ala., Birmingham.—A. W. Baker let contract to J. Blomeley & Co., Birmingham, to erect 1-story frame residence.

Ala., Birmingham.—S. H. Burke will erect 2-story frame residence; cost \$4000; 8 rooms; fireproof composition shingle roof; furnace heat; W. T. Warren, Archt., Empire Bldg., Birmingham; contract let to Geo. N. Smaldrige (lock and key job), Chamber of Commerce Bldg., Birmingham. (Lately noted.)

Ala., Birmingham.—J. R. Boggs let contract to Slye & Mosley Bldg. Co., Birmingham, to erect residence; 2 stories; frame; cost \$3000.

Ala., Foley.—G. I. Weatherly let contract to M. E. Dalton, Foley, to erect bungalow.

Ala., Greensboro.—J. J. Christian let contract to Stratton Bros., Greensboro, to erect bungalow; shingle roof; cement hard plaster; tiling and mantels; grates and fireplaces.

Ala., Montgomery.—Jno. W. Tullis let contract to erect residence; 2 stories; cost \$12,000; construction begun; Okel & Cooper, Archts., Montgomery.

D. C., Washington.—Jno. W. Bawner, 1340

New York Ave. N. W., let contract to Wm. E. Payne to erect 3-story brick dwelling at 1814 S St. N. W.; cost \$6000.

Fla., Lakeland.—C. D. Clough let contract to J. B. Streeter to erect 9-room residence.

Fla., Miami.—E. C. Cole, Chicago, is reported to have let contract to erect \$10,000 residence between Miami and Coconut Grove; Geo. L. Pfeiffer, Archt., Miami.

Fla., West Palm Beach.—Phil Bryan and A. J. Comeau will erect residence on Floral Park; cost \$3000 to \$4000; Mr. Bartholemew, Contr.

Fla., Titusville.—Rufus M. Robbins let contract to S. Souders to erect bungalow; oak floors; plate-glass windows.

Ga., Augusta.—Wm. Schweigert is reported to have let contract to T. J. Daly to erect residence on Henry St.; stucco; cost \$10,000.

Ga., Savannah.—Chas. Bernard, P. O. Box 92, is reported to have let contract to erect 4 bungalows in West Savannah; also contemplates erecting 12 additional bungalows in spring.

Ga., Savannah.—Mrs. Jas. M. Dixon, 201 E. Hall St., will erect 50 small dwellings near plant of Standard Oil Co.; one story; frame; metal roof; cost \$600 each; contract let to Merritt W. Dixon.

Md., Somerset Heights (not a P. O.).—Delos Van Dine of Dept. of Agriculture, Washington, D. C., let contract to A. La-Croix to erect residence; 2 stories and attic; cost \$6000; Frank Pierson, Archt., 902 F St. N. W., Washington.

N. C., Greenville.—F. J. Forbes let contract to erect dwelling; 2 stories; frame; metal roof; cost \$7000; Benton & Moore, Archts., Wilson, N. C.

N. C., Winston-Salem.—Mrs. T. V. Edmunds let contract to J. H. Grubbs, Winston-Salem, to erect 2-story 5-room frame shingle-roof dwelling; also erect two 2-story 5-room frame shingle-roofed dwellings; city sewer, water and electric lighting; total cost, \$3600.

N. C., Winston-Salem.—E. W. Scott let contract to J. H. Grubbs to erect 2-story 8-room frame and shingle dwelling; city sewerage, water and gas connections; electric lights; also erect 1-story frame metal-roof addition to store building; cost \$4500.

Tenn., Chattanooga.—G. F. Milton let contract to Dan P. Chandler to erect residence at Fort Wood St. and Fort Wood Pl.; R. H. Hunt, Archt., Chattanooga.

Tenn., Memphis.—Jno. B. Leonard, 44 N. Belvidere Ave., let contract to Sam A. Jones, 911 Meda St., Memphis, to erect bungalow; 7 rooms; asbestos shingle roof; furnace; electric lighting; concrete sidewalks; cost \$4850. (Lately noted letting contract to C. E. Collett.)

Tenn., Memphis.—Mrs. Pendergrast let contract to R. G. Harris to erect residence at 285 Stonewall Pl.; cost \$500.

Tenn., Memphis.—C. J. Watson let contract to J. W. Roane to erect 1-story 7-room frame residence at 1975 Union Ave.; cost \$4000.

Tex., El Paso.—Austin & Marr Investment & Construction Co. is reported to have let contract to erect four \$3000 dwellings in Tularosa St.; also to erect 52-room tenement house on Oklahoma St. to cost \$8000.

Tex., El Paso.—I. Alderete, 1325 Arizona St., has plans by and let contract to W. D. Moseley, 1314 California St., El Paso, to erect residence; 7 rooms; shingle roof; hot-air heat; electric lighting; cost (without mechanical equipment) \$3500. Mr. Moseley lately noted to erect dwelling. (See Machinery Wanted.)

Va., Norfolk.—Farant Investment Corporation let contract to G. F. Wilkinson, Norfolk, to erect 3 double brick residences on Dungeo St.; cost \$6000.

Va., Roanoke.—E. J. Tice, 504 15th St., let contract to J. H. Murray, Roanoke, to erect dwelling; 32x36 ft.; brick veneer; slate roof; hot-water heat; electric lighting; cost \$4000; Geo. Davies, Archt., Roanoke. (Lately noted.)

W. Va., Keystone.—Wm. Banks of Bluefield let contract to Rufus B. Baird & Co., Bluefield, to erect six 2-story frame residences; cost \$6000; T. T. Carter, Archt., Bluefield.

W. Va., Warwood.—Emil Frieberthausen let contract to H. A. Hawkins, Wheeling, to erect residence; 2 stories; frame; Geo. H. Dieringer, Archt., Wheeling.

GOVERNMENT AND STATE

Ark., Hot Springs.—Hospital.—V. A. Kelley, Leavenworth, Kans., has contract for work in connection with Army and Navy General Hospital, as follows: \$1896 for excavation under South Ward building; \$1853 for constructing side porches on buildings 26 and 27; \$313 for addition to covered way.

D. C., Washington.—House of Representatives.—House of Representatives, Elliott Woods, Superintendent U. S. Capitol Building and Grounds, let following contracts to erect additional story to House Office Building: To Soper & McDonald, 216 Main Ave. S. W., Washington, at \$7750 (percentage contract) for raising roof; Warren M. Whyte, 304 13th St. N. W., Washington, at \$12,525, copper work (previously noted); Jos. L. Crupper, 13th St. and Ohio Ave. N. W., Washington, at \$3589, interior trimmings, doors, jambs, etc.; Martin Wiegand, 415 Maryland Ave. S. W., Washington, at \$6240, office partitions; A. B. See Elevator Co., Barrister Bldg., Washington, at \$2775, freight elevator; Otis Elevator Co., Metropolitan Bank Bldg., Washington, at \$3848, extending present elevators; Elmer H. Catlin Co., 309 13th St. N. W., Washington, at \$1063.60, electric-light fixtures; total cost additional story \$250,000; Carrere & Hastings, 225 Fifth Ave., New York, and Frank G. Pierson, 902 F St. N. W., Washington, Archts., latter's address, 902 F St. N. W., Washington; contract for interior marble work (lately noted) let to Vermont Marble Co., Rutland, Vt., at \$12,300.

HOTELS

Ark., Hot Springs.—E. H. Johnson let contract to Jones & Harrington, Fort Smith, Ark., to erect hotel and store building at Central, Olive, Market and Ouchita Sts.; cost (without mechanical equipment), \$35,000; fireproof; reinforced concrete; tar and gravel roof; R. P. Morrison, Archt., Little Rock, (lately noted.)

Ga., Augusta.—H. G. Kale is having plans prepared by G. Lloyd Preacher, Augusta, for hotel and store building; brick, stone, marble, granite, terra-cotta and steel; 75x110 ft.; 5 stories; mill construction; gravel roof; heating and lighting not determined; will contain 6 stores; cost (without mechanical equipment) \$75,000; contract let to J. W. Silbert; cost of elevator \$1000.

Mo., Kansas City.—Owen Building & Investment Co., 801 Sharp Bldg., let subcontracts (no general contract) to erect family hotel; 53x133 ft.; 8 stories; cost (without mechanical equipment) \$125,000; fireproof; composition roof; steam heat costing \$6900; electric wiring and labor costing \$3500; Owen & Payson, Archts., 713 Scarritt Bldg., Kansas City; Howard Vrooman, owner, 1162 Commerce Bldg., may be addressed. (Previously noted.)

MISCELLANEOUS

D. C., Washington.—Stable.—H. F. Davis has plans by and let contract to W. W. Adamson, Jr., 2296 Champlain St. N. W., Washington, to erect stable; 2 stories; brick; cost \$3000.

Ga., Albany.—Stable.—F. F. Putney, Putney, Ga., has plans by and let contract to H. E. Ittner to rebuild stable reported burned at Putney; 44x70 ft.; 5-ply gravel roof; electric lighting; cost (without mechanical equipment) \$4500.

Md., Baltimore.—Grandstand.—Federal League Baseball Club, L. Edwin Goldman, Chrmn. Building Comm., let contract to Cowan Building Co., 106 W. Madison St., Baltimore, to erect U-shaped grandstand, bleachers and 2 pavilions; steel and wood; prepared slag roof; cost about \$75,000. (Contract lately noted for grading, draining, etc.)

W. Va., Wheeling.—Clubhouse.—Wheeling Country Club let contract to J. W. Beltz & Son, Wheeling, to improve clubhouse; remodel interior, rearrange sleeping-rooms, construct additional sleeping-rooms, construct 18-hole golf course, etc.; cost \$15,000 to \$20,000.

RAILWAY STATIONS, SHEDS, ETC.

Tenn., Memphis.—Illinois Central R. R. Co., A. S. Baldwin, Ch. Engr., let contract to Bates & Rogers Construction Co., Chicago, to erect building to be occupied by American and United States Express companies; 230x50 ft.; 1 story; cost (without mechanical equipment) \$70,000; fireproof; composition roof on concrete; steam heat; electric lighting; let contracts to Strobel Construction Co., Chicago, for steel work, and American Bridge Co., Gary, Ind., for fabrication steel. (Previously noted.)

SCHOOLS

Ky., Lexington.—Transylvania University let contract to Frank Corbin, Lexington, to erect dormitory; 3 stories and basement; brick; stone foundation; accommodations for 127 students; building 35x300 ft.; ordinary construction; cost (without mechanical equipment) \$90,000; cost of heating plant, \$5000; Smith & Bedford, Archts., Lexington.

Tex., Fort Worth.—School Board let con-

tract to J. P. Taylor Construction Co., Fort Worth, to erect Eighth Dist. School; 12 classrooms; 2 stories and basement; construction to permit erection two 6-room wings at ends; classic exterior design; 2 staircases; fireproof; stairs, columns and floors of reinforced concrete; assembly-room 70x27 ft.; boiler-rooms, toilets, etc., in basement; cost \$50,000; Muller & Pollard, Archts., F. & M. Bank Bldg., Fort Worth. (Lately noted.)

Tex., Wellington.—Independent School Dist. will issue \$12,000 bonds to erect school; contract let to J. C. Biddle, Durant, Okla.

Va., Emory.—Emory and Henry College is reported to have let contract to J. P. Pettyjohn & Co., Lynchburg, Va., to erect administration building; 2 stories and basement; 128x170 ft.; cost about \$65,000; Clarence B. Kearfott, Archt., Bristol, Va. (Lately noted.)

W. Va., Elkins.—Board of Education let contract to King Lumber Co., Charlottesville, Va., to erect high school; Frank L. Packard, Archt., Columbus, O. (Lately noted to cost \$75,000.)

STORES

Ala., Birmingham.—Frank Nelson, Jr., let contract, it is reported, to Evans Bros. Construction Co., Birmingham, to erect building to be occupied by F. W. Woolworth & Co.; white tiled brick; terra-cotta trimmings; 2 stories and basement; cost \$50,000; Harry B. Wheelock, Archt., Birmingham. (Lately noted.)

Ark., Hot Springs.—E. H. Johnson let contract to erect store and hotel building. (See Hotels.)

Ark., Little Rock.—City Market & Arcade Co. let contract to Thalmann & Reed, Little Rock, to remodel building adjoining market building for Altheimer Dry Goods Co.; Geo. R. Mann, Archt., Little Rock. (Altheimer Dry Goods Co., 601 Center St., lately noted to remodel building at cost of \$25,000.)

D. C., Washington.—Chas. A. Roussor will expend \$5000 (without mechanical equipment) to erect store at 804 K St. N. W.; ordinary construction; tin roof; heating reserved by owner; electric lighting to cost \$100; Geo. P. Hales, Archt., District of Columbia Bank Bldg., Washington; contract lately noted let to Skinker & Garrett, 411 Evans Bldg., Washington; all subcontracts let.

Fla., Oviedo.—H. B. McCall let contract to Hanner Bros., Orlando, Fla., to rebuild store; 60x60 ft.; cost (without mechanical equipment) \$4000; fireproof; Carey's roofing. (Lately reported damaged by fire.)

Ga., Atlanta.—Leon Eplan let contract A. D. Hamilton to add story and remodel building at 160 Pulliam St.; cost \$3000.

Ga., Atlanta.—Mitchell Bros. let contract to C. W. Bernhardt for alterations to building; cost \$3000.

Ga., Augusta.—Estes estate let contract to T. O. Brown & Sons, Augusta, to repair burned store; cost \$4800.

Ga., Augusta.—H. G. Kale will erect store and hotel building; contain 6 stores; contract let. (See Hotels.)

Ga., Warwick.—Little & Phillips, Cordele, Ga., have contract to erect brick store buildings.

Mo., Kansas City.—Ajax-Grieb Rubber Co. let contract through Root & Siemens, Archts., Kansas City, to remodel building at 1730 Grand Ave. (Lately fully described.)

Mo., Kansas City.—Bethlehem Steel Co., South Bethlehem, Pa., is reported to have contract for half of structural shapes to be used in construction of 6-story \$500,000 store building for John Taylor Dry Goods Co., for which similar contract has been let to Kansas City Structural Steel Co.; general contract let to Selden-Breck Construction Co.; Holabird & Roche, Archts., Chicago; Baird & Huselton, local representatives. (Lately fully detailed.)

N. C., Charlotte.—D. Parks Hutchison let contract to J. A. Jones, Charlotte, to erect building on N. Tryon St.; 4 stories and basement; 55x160 ft.; cost (without mechanical equipment) \$50,000; composition roof; steam heat; electric lighting; vault lights; freight and passenger elevator; Louis H. Asbury, Archt., Charlotte; will be occupied by J. B. Ivey Co.

N. C., Winston-Salem.—E. W. Scott let contract to erect addition to store building. (See Dwellings.)

Okla., Keota.—Newman Robertson let contract to J. M. Ellis, Stigler, Okla., to erect mercantile building; 50x130 ft.; cost (without mechanical equipment) \$6000; brick; rubble and gravel roof; electric lighting; concrete sidewalks. (O'Keefe-Ewers Co. lately reported letting contract.)

Tex., Pittsburg.—F. J. Phillips let contract to erect business building; brick; to be occupied by Miss Sue Bass.

Tex., Pittsburg.—Greer & Phillips are reported to have let contract to erect building to be occupied by Wade & Garrison; brick construction.

Tex., Pittsburg.—H. H. Ludedecke is reported to erect brick business building.

Tex., San Antonio.—Mrs. Emma Dittmar let contract to Geo. A. Moody to erect addition to store and office building; 37 ft. long; install new plate-glass front; cost (without mechanical equipment) \$7671; ordinary construction; 5-ply gravel composition roof; gas heat for offices above; Aug. A. Herff Co., Archt., 306½ Houston St., San Antonio. (Lately noted.)

Va., Portsmouth.—Sam Solomon let contract, it is reported, to C. N. Moody, Portsmouth, to erect 3-story brick business building on Crawford St.; cost \$8500.

THEATERS

Mo., Kansas City.—Frank L. Newman, care of Mutual Film Co., 12th and McGee Sts., will expend \$40,000 to erect moving-picture parlor at 1022-24 Main St.; 40 ft. 9 in. by 124 ft.; fireproof; tar and gravel roof; heating and lighting from city's plant; H. A. Drake, Archt., 315 Reliance Bldg., Kansas City; contract for brick work and excavation let to

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Birmingham.—Illinois Central R. R. Co. says it is not contemplating improvement and extension of joint terminal facilities at Birmingham. This denies a recent press report.

Ala., Birmingham.—The Alabama Great Southern R. R., it is announced, proposes to build 14 mi. more of double track between Birmingham and Mobile Junction below Bessemer, and engineers will make survey immediately. C. Dougherty, Cincinnati, O., is ch. engr.

Ala., Tuscaloosa.—Rumored that the Louisville & Nashville R. R. Co. contemplates construction of a short line between Birmingham and Mobile by building from Tuscaloosa to Selma or from Woodstock to Selma, in either case about 45 mi. of new line. H. C. Williams, Louisville, Ky., is Ch. Engr. of construction.

Ark., Helena.—West Helena Consolidated Co. is chartered to construct electric interurban railways in Arkansas. There is \$50,000 of common and \$600,000 of preferred stock. E. C. Horner is Pres.; R. B. Macon, V.-P., and John C. Horner, Secy.-Treas.

Fla., Tampa.—Legal notice is given of intention to apply for incorporation of the Tampa, Atlantic & Gulf Ry. Co., which, as previously announced, is a change of name for the Tampa, Charlotte Harbor & East Coast Ry. Co. The projected line is from Tampa through Polk, Manatee, De Soto, Lee, St. Lucie, Palm Beach and Dade counties to some point on the eastern coast of Florida, about 250 mi., with branches as may be desired. According to former statements, the line will terminate at either Fort Lauderdale or Miami, Fla. The notice is signed by W. J. Epperson of Bronson, Fla.; W. J. Bolling of St. Louis, Mo., and T. C. McEachin of Meredith, Fla. Edward Walker of Tampa is also reported prominently interested.

La., Logansport.—W. R. Pickering Lumber Co. is quoted as denying late press report that it would build 40 mi. of railroad, saying that terminus of extension is not decided. Now has 6 or 7 mi. operating out of Haslam, Tex., opposite Logansport.

La., Mansfield.—Mansfield Ry. & Transportation Co., says a report, has completed and put in operation for freight service its extension of 9 mi. to Naborton.

La., Shreveport.—Louisiana-Texas Traction Co., says a report, is now considering a proposition that it build a line from Mansfield, La., north to Vivian, incidentally connecting Shreveport, Blanchard, Oil City and Mooringsport. Major A. B. Blevins is Pres., and Glen N. Walker, Secy.

La., Vinton.—Orange Northeastern R. R. Co., says a report, has about 6½ mi. of grade finished from Vinton toward Stark, but no track laid. T. H. Mandell, Lake Charles, La., is Ch. Engr.

Mo., Cassville.—Cassville & Western R. R. Co. has applied to the Missouri Public Service Commission for authority to issue bonds for reconstruction and equipment. S. M. Mitchell, Cassville, is Pres. and Gen. Mgr.

Mo., Sedalia.—Missouri Interurban R. R. Co., says a report, has made surveys for a

Planagan Bros., and structural steel to Kansas City Structural Steel Co., Kansas City; Leo N. Leslie, builder, Leslie Orser Bldg., Kansas City. (Lately noted.)

Mo., St. Louis.—Phillips Amusement Co. let contract to M. McClure to construct concrete foundation at 2140-46 E. Grand St.; cost \$9000.

Tenn., Murfreesboro.—Tony Sudekum let contract to Thos. Christman to erect theater; 34x120 ft.; fireproof construction; steam heat; cost (without mechanical equipment) \$15,000. (Lately noted.)

WAREHOUSES

Ark., Little Rock.—Terminal Warehouse Co., \$75,000 capital, inctd.; S. J. Beauchamp, Pres.; W. F. Bracy, V.-P.; C. R. Benson, Secy.; Gordon N. Peay, Treas.; will erect warehouse at 109-111 Rector Ave.; 3 stories and basement; 100x150 ft.; 60,000 sq. ft. floor space; 2 high-power electric elevators; several office suites; A. O. Campbell, Contr.; H. J. Harker, Archt., Little Rock.

N. C., Elkin.—E. F. McNeer has plans by and let contract to J. W. Nelson, Elkin, to erect tobacco warehouse; 100x117 ft.; mill construction; composition roof; cost (without mechanical equipment) \$10,000.

Va., Richmond.—Consolidated Paper & Box Mfg. Co. let contract to erect warehouse, etc. (See Miscellaneous Factories.)

line from Sedalia to Prairie Home via Smithton, Otterville and Buncheon, about 40 mi. A. W. Nelson of Buncheon is Pres., J. W. Mellor Secy., and B. H. Colby is also interested, at Security Bldg., St. Louis.

Okla., Beaver City.—J. G. Trindie, Liberal, Kans., says that the railroad from Beaver City to 1 mi. east of Forgan, 7 mi., is being graded by farmers along the line, directed by a local construction company. There will be two bridges, one of 350 ft. length and the other of 50 ft. Route is through 1½ mi. of hills, the rest level. There are 40 to 50 teams employed. John E. Swalm, Secy., Beaver, says over one mi. of grade is now completed, and all to be done in 60 days. J. H. Thompson, Balke, is contractor. Beaver Railroad & Construction Co. is owner. L. L. Shaw, Pres.; John Webb, V.-P.; Hiram Peckham, Treas.; H. D. Meese, Gen. Mgr., and J. G. Trindie, Ch. Engr. H. M. Bulick of Beaver also interested.

Okla., Vinita.—S. M. Porter of Caney, Kans., is quoted saying that financing is assured from Boston and Liverpool for the proposed Cherryville, Oklahoma & Texas R. R. to be built from Caney to Nowata and Vinita, Okla., about 40 mi., on which some grading has been done.

Tenn., Chattanooga.—Southern Ry. Co. is making location survey for proposed line from the Chattanooga Terminal to Wauhatchie. W. H. Wells, Washington, D. C., is Ch. Engr. of Constr.

Tenn., Shelbyville.—Shelbyville, Petersburg & Decatur Electric Ry. Co., says a report, has completed survey from Shelbyville to Petersburg, 20 mi. S. P. Kirkpatrick, Shelbyville, is Pres. and Gen. Mgr.

Tex., Dallas.—Dallas Northwestern Traction Co. has filed charter approved by the Attorney-General. Proposed line is from Dallas via Denton to Wichita Falls, Tex., about 125 mi. J. T. Witt, Ch. Engr., is quoted saying survey is made from Dallas to Denton, about 30 mi., and to Krum, about 7 mi. more. E. P. Turner is Pres., and among others interested are Ben. B. Cain, L. S. Thorne and E. L. Sargent, all of Dallas.

Tex., Dallas.—Concerning recent reports that the Texas & Pacific Ry. proposed improvements in Texas and Louisiana, it can be stated that about \$75,000 will be spent for roadbed improvement, especially ballasting. Between Whitesboro, Tex., and Texarkana there will be 170 mi., and between Shreveport and Cypress, La., 51 mi. C. U. Chamberlin, Dallas, is Ch. Engr.

Tex., Galveston.—Work is well under way on the valley yards of the Gulf, Colorado & Santa Fe Ry. at Galveston, for which the company has appropriated \$4,170,38. These yards will have four new storage tracks, each 3900 ft. long, with tail and ladder tracks, and six new storage tracks, each 1850 ft. long, with tail and ladder tracks. F. Merritt, Galveston, is ch. engr.

Tex., San Antonio.—A. M. Acheson, Ch. Engr., Dallas, says that only tentative plans have been prepared for the Missouri, Kansas & Texas Ry. Co.'s terminals at San Antonio, and they have not been approved by the management.

Tex., San Benito.—San Benito & Rio Grande Valley Ry., according to a local report, has prepared plans for construction of two of its projected extensions previously announced. They are Fernando to San Benito, 21.5 mi., and Santa Maria to La Lomita, 29.5 mi.; total 51 mi. The other proposed line is from Fernando to Alton, Tex., 49 mi. E. E. McLellan, San Benito, Tex., is ch. engr.

Va., Dante.—Carolina, Clinchfield & Ohio Ry., says a report, has begun tracklaying on its extension to Elkhorn City, 35 mi.

W. Va., Blacksburg.—Waynesburg & Blacksburg Electric Ry. Co., according to a report following the annual meeting, will begin construction in the spring on line from Waynesburg to Blacksburg, about 15 mi.; directors, R. E. Kent, W. R. Hawkins, W. F. Blair, J. B. Pollock, R. L. Hoge, J. W. Closser, Thos. H. Montgomery and R. L. Hoskinson, all of Waynesburg, Pa., and Isaac Minor of Blacksburg, W. Va.

W. Va., Charleston.—An officer of the Charleston Interurban Ry. is reported saying that plans for the extension of 25 mi. to Montgomery include construction of a steel bridge 1000 ft. long. S. M. Gallaher, Box 994, Charleston, is Supt.

W. Va., Martinsburg.—John Butler of Washington, D. C.; D. Currier, Jr., and L. H. Roney of Tomahawk, W. Va., are reported interested in plans to build the Back Creek Valley R. R. in West Virginia.

W. Va., Seth.—Chesapeake & Ohio Ry. denies a recent press report by saying that it is not contemplating the construction of an

extension from Seth to the mouth of Clear Fork at an early date.

W. Va., Wheeling.—The Baltimore & Ohio R. R. Co. denies recent press report from Waynesburg, Pa., that it would build a line from Smithfield via Waynesburg to Wheeling, W. Va.

STREET RAILWAYS

Ala., Birmingham.—Birmingham Ry., Light & Power Co. will spend this year, it is announced, \$537,000 on railway and light extensions and improvements. A. H. Ford is Pres.

Ga., Waycross.—Waycross Street & Suburban Ry. Co., A. B. Correll, Supt., is reported contemplating extension to Gilchrist Park and Hebardville.

Mo., Kansas City.—Metropolitan Street Ry. Co. has prepared plans for street-car tracks to the new Union Station. A. E. Harvey is Ch. Engr.

Mo., St. Louis.—Rapid Transit Co. of St. Louis is chartered; capital \$2500; incorporators, James E. Westrich, H. E. Miller and Guy B. Hegg.

Tenn., Nashville.—Nashville Traction Co. has begun construction of its proposed electric street railway. Detroit & Nashville Construction Co. is the contractor. Walter O. Palmer is Pres. of the railway.

Va., Richmond.—Virginia Ry. & Power Co. has been granted permission to build tracks on the north and the south approaches to Mayo's Bridge to connect with the bridge tracks. F. S. Wheelwright is pres.

ment for street railways, incombustible electric wires and dry electrical batteries.

Electrical Equipment.—Geo. Beaudett, 523 Roosevelt St., El Paso, Tex.—Data on electrical equipment, such as house telephones, mail boxes with bell signals, etc., for \$21,000 apartment-house.

Electric-light Plant.—City of Victoria, Va., H. T. Faison, Clerk.—Bids on electric-light franchise.

Electric-light Plant.—See Water-works and Electric-light Plant, N. C., Pineview.

Electric Motor.—Cadiz Water Co., G. L. Smith, Pres. and Gen. Mgr., Cadiz, Ky.—Electric motor. (See Pump, etc.)

Electrical Machinery.—Box 526, New Orleans, La.—5 K. W. 110-volt, D. C., belted type generator; 5 H. P., 220-volt, 3-phase, alternating current motor; 1 H. P., single phase, 110-volt, alternating current motor; all second-hand.

Elevator.—Glascok Stove & Mfg. Co., Greensboro, N. C.—Prices on (second-hand preferred) elevator; belt-driven to lift load of 2000 lbs., 10 ft.

Engine.—Pensacola Excelsior Co., M. G. Hoffman, Pres., Box 120, Pensacola, Fla.—Automatic engine for Dutch oven boiler.

Engines (Gasoline).—S. H. Baker, Box 884, Richmond, Va.—Prices on stationary gasoline engines.

Farm Equipment.—Riverdale Farm Co., H. F. Ganzner, Pres., Cotulla, Tex.—Data on farm equipment.

Farming Machinery.—See Machinery, etc., Budapest, Hungary.

Fiber (Sisal) Machinery.—E. S. Parsons & Co., Grand Cayman, W. I.—Addresses of manufacturers of machinery to make sisal into fiber.

Flooring.—G. J. Lewis, Harlan, Ky.—Prices on tile flooring.

Filter Equipment.—Board of Awards, John Hubert, Acting Pres., Baltimore, Md. Bids until Feb. 18 to install equipment for filtration plant at Lake Montibello, contract No. 22; plans and specifications at office of Water Dept., Ezra B. Whitman, Water Engr., City Hall.

Gas (Isolated) Plant.—Roland Woodward, Mgr., American Securities Co., Jacksonville, Fla.—Addresses of manufacturers of gas machine manufacturing from gasoline and kerosene; for country residence.

Gunpowder Machinery.—See Machinery, etc., Budapest, Hungary.

Hammers (Steam Pile Driver).—Southwestern Mfg. Co., Oklahoma City, Okla.—Steam pile driver hammers.

Heating Plant.—G. J. Lewis, Harlan, Ky.—Prices on steam heating plant.

Hoists (Electric).—L. F. Hobbs, Box 483, Norfolk, Va.—Single drum electric hoist, complete with 20 H. P. motor and starting box; new or second-hand.

Ice Machinery.—City of Fernandina, Fla.—Bids at office of G. W. Baltzell, City Clerk, until Feb. 18, to furnish and install two 15-ton exhaust steam ice machines; absorption process.

Knitting Machines.—R. Paulsen, Webb City, Mo.—To correspond with manufacturers of circular knitting machines.

Levee Construction.—Atchafalaya Basin Levee Dist. Commrs., V. M. Lefebvre, Pres., Port Allen, La.—Bids until Feb. 9 at office of Board of State Engrs., 213 New Orleans Court Bldg., New Orleans, La., to construct Red Cross to Holloway levee on east bank of Atchafalaya River in Point Coupee parish; 250,000 cu. yds.; deposit \$700. Information on application.

Levee Construction, etc.—Obion River Drainage Dist., J. A. Coble, Secy. Board of Directors, Union City, Tenn.—Bids until Feb. 21 to construct about 1,587,356 cu. yds. levees and 551,000 cu. yds. ditch work with floating dredge; clearing 500 acres right of way for levees and ditches; clearing 228 acres of all trees, undergrowth, logs, etc., for floodway; for plowing and grubbing strip 16½ ft. wide in center of levee base in area about 46 acres; for constructing 3 reinforced concrete sluice-ways with hand-raising back water gates, making 600 cu. yds. concrete; will consider bids on all or any part of work.

Locomotive.—Beaver Railroad & Construction Co., John E. Swain, Secy., Beaver, Okla.—Prices on locomotive. (See Railroad Equipment.)

Locomotive.—J. H. Macleary, Suffolk, Va.—5x10-in. or 6x10-in. cylinder locomotive; 35-in. gauge track. Give condition, location and price.

Lumber.—See Naval Supplies.

Lumber.—Falls City Construction Co., Louisville, Ky.—Prices f. o. b. cars, Bas-

trop, La., on No. 2 yellow pine lumber, dimension stuff and sheathing for courthouse at Bastrop; wants prices and samples sent to Louisville.

Machinery, etc.—Ervin Tolnai, Budapest, VI, Izabella-utca 66, Hungary.—Interested (view to representation) in American machinery and manufactures, including fruit conserving and electric (dynamo manufacturing) machinery, gunpowder mill equipment, farming implements, etc.; also machinery for production of nitrates and other chemical products, utilizing natural gas. Give full details, two samples of catalogues, with prices and discounts, and weights and measures of goods f. o. b. New York, or c. i. f. Fiume.

Mausoleum.—Georgia Mausoleum Co., 532 Candler Bldg., Atlanta, Ga.—Open bids about April 15 to construct mausoleum, capacity 300 crypts, in cemetery, Dublin, Ga.; A. Ten Eyck Brown, Archt., Atlanta.

Metals.—See Naval Supplies.

Manufactures.—Ary Bourjac, Point-a-Pitre, Guadeloupe, W. I.—Correspondence (view to agency) with manufacturers of wheat flour in bags, cottonseed oil, summer cottonseed oil IXL, refined petroleum in tins burning at 119 degrees, hard and soft coal, tin-plate, etc.

Metal Shelving.—Treasury Dept., Office of Oscar Wenderoth, Supervising Archt., Washington, D. C.—Bids until Feb. 6 to install metal vault shelving in United States public building at Waycross, Ga.

Metal Stamping.—David S. Packard, 1865 Park Rd., Washington, D. C.—Correspondence with sheet metal stamping companies (brass stamping preferred) with view to placing order for manufacture of metal novelty.

Mining Machinery.—Wolf Valley Coal Co., W. H. Soper, Mgr., Rosenvell, Ky.—Mining equipment; plans daily output 3000 tons coal.

Naval Supplies.—Navy Dept., Bureau of Supplies and Accounts, T. J. Cowie, Paymaster-gen., Washington, D. C.—Bids Feb. 21 to furnish ¾ cu. yd. grab bucket, schedule 6341; 125,500 ft. miscellaneous white oak lumber, 7800 ft. best commercial North Carolina pine and 11,250 ft. long leaf yellow pine, schedule 6250; 58,800 lbs. hot rolled or forged steel and 19,700 lbs. nickel steel bars, schedule 6343; delivery Navy-yard, Washington, D. C.; 250 tons Connellsville coal, schedule 6362; 1000 gals. boiled linseed oil in commercial 5-gal. cans and cases, schedule 6353; 20,000 ft. special portable lamp wire, 98 per cent. pure copper, schedule 6340; miscellaneous lot white oak, schedule 6354; miscellaneous lot white oak and chestnut railroad ties and 50,000 lbs. No. 1 relaying steel rail with angle splice bars, schedule 6348; 22,400 lbs. ingot tin, schedule 6352; delivery Navy-yard, Norfolk, Va.; also 50,000 lbs. miscellaneous black steel shapes, schedule 6343; delivery Navy-yard, Charleston, S. C.; for copies apply to navy pay office nearest navy-yard.

Oils, etc.—Paul Schmitz, Pointe-a-Pitre, Guadeloupe, W. I.—Correspondence (view to agency) with manufacturers of cottonseed oil, petroleum, corn oil, biscuits and lard.

Paint.—Chas. H. Stone, Box 1242, Springfield, Mass.—Paint for cottages, Winston-Salem, N. C.

Paving, etc.—Comms. of Street Improvement Dist. No. 220, H. A. Bowman, Chmn., Little Rock, Ark.—Bids until Feb. 17 to construct 18,000 sq. yds. pavement, including necessary grading, curbing, guttering, etc.; plans and specifications at office of Engr., 717 Southern Trust Bldg., Little Rock; E. A. Kingsley, Engr. for Dist.

Paving, etc.—Street Improvement Dist. No. 228, Wallace Townsend, Atty., 1102 State Bank Bldg., Little Rock, Ark.—Bids until Feb. 9 to construct sidewalks and grading; plans and specifications obtainable from H. Levinson, Supt. Public Works.

Pipe.—P. & H. Oil & Gas Co., 1108 Colcord Bldg., Oklahoma City, Okla.—6, 8 and 10-in. pipe.

Piping.—Framada Oil & Gas Co., J. M. Wintersmith, Secy., Ada, Okla.—Prices on piping.

Pontoons, etc.—U. S. Engr. Office, E. Eveleth Winslow, Lieut.-Col. Engrs., Norfolk, Va.—Bids until Feb. 28 to construct and deliver pontoons and pipe line for dredge Currituck. Information on application.

Postal Supplies.—Victor Jacques, Civil Engr., Ave. Louise 521, Brussels, Belgium.—Correspondence (view to agency) with manufacturers of furniture and equipment for postal stations.

Posts (Cedar and Locust).—People's National Bank, Strasburg, Va.—Addresses

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

"WANTS"

Bakery Machinery.—Copperthite Pie Baking Co., Henry Van Deusen, Pres., 3287-89 M St., Washington, D. C.—Prices on pie machinery.

Bank Fixtures, etc.—Mendota Bank, A. B. English, V.-P., Mendota, Va.—Prices on bank fixtures, safe and vault.

Bank Fixtures, etc.—First National Bank, C. A. Wyche, Pres., Roanoke Rapids, N. C.—Prices on bank fixtures and vault doors.

Bank Protection.—War Dept., U. S. Engr. Office, W. C. Langfitt, Col. Engrs., Savannah, Ga.—Bids until Feb. 20 for bank protection, Savannah River; 12-in. block stone paving laid on 6-in. crushed stone foundation; toe of bank to be held by trench filled with broken run-of-the-quarry stone; two approaches with stone-block pavement for landing, laid on concrete base; 540 lin. ft. wooden bulkhead.

Belt Chain.—Christopher Press Control Co., B. F. Van Dyke, Secy., Granite, Okla.—Prices on belt chain.

Biscuits.—See Oils, etc.

Boilers.—Danville Creamery Co., O. E. Hatcher, Pres., Danville, Va.—Two 40 or 50 H. P. boilers. (See Creamery Machinery.)

Boiler, etc.—Pensacola Excelsior Co., M. G. Hoffman, Pres., Box 120, Pensacola, Fla.—Prices on 150 H. P. (second-hand) Dutch oven boiler with automatic engine.

Boilers.—Texas Supply Co., 1220 Bowie St., Beaumont, Tex.—6 second-hand horizontal fire-box 40, 45 or 50 H. P. boilers; good condition.

Boilers.—See Water-works Equipment.

Bottles.—Johnson & Johnson Co., A. R. D. Johnson, Pres., Raleigh, N. C.—100 5-gal. glass bottles such as used for mineral water. Give quotations also with Johnson Co.'s name on bottle.

Brick.—Falls City Construction Co., Louisville, Ky.—Prices f. o. b. cars, Bastrop, La., on 80 per cent. hard common brick for courthouse at Bastrop; wants prices and samples sent to Louisville.

Bridge Construction.—Jackson County Commrs., Kansas City, Mo.—Bids until Feb. 13 to construct bridge at Raytown on Blue Ridge Blvd.; concrete rib arch, 143 ft. end to end; Engrs., Waddell & Harrington, Kansas City; plans at office of Highway Engr., Kansas City.

Bridge Construction.—Bowie and Cass

counties, Tex.—Bids opened at Atlanta, Tex., Feb. 16 to construct 200-ft. steel or suspension bridge across Sulphur River at Pace Ferry; profile of site with E. E. Vaughn, Atlanta; plans to be submitted in duplicate not later than Feb. 9 to County Judge Lee Tidwell, New Boston, Tex., and County Judge John Fant, Linden, Tex.

Bridge Construction.—H. Pillans, Commr., Mobile, Ala.—Bids until Feb. 27 to construct concrete culvert on Wilkinson St. between St. Louis and Davis Aves., and concrete bridge across same at St. Anthony St.; culvert will be 200 ft. long and the section 4x12 ft.; plans and specifications at office of City Engr., Municipal Bldg.

Brushes (Clothes).—C. F. Smith, First National Bank, Somerset, Ky.—Addresses of manufacturers of advertising clothes brushes.

Cans (Oil, Condensed Milk, etc.).—Wm. U. Harris, 312 St. Michael St., Mobile, Ala.—Addresses of manufacturers of tin cans or containers for milk, condensed milk, oils, etc., for shipping; cans not to be refilled.

Cars.—Justice Cox, Jr., & Co., 1236 Land Title Bldg., Philadelphia, Pa.—Fifteen 60,000-lbs.-capacity flat cars for Southern delivery.

Canning Machinery.—See Machinery, etc., Budapest, Hungary.

Cars.—Beaver Railroad & Construction Co., John E. Swain, Secy., Beaver, Okla.—Prices on cars.

Creamery Machinery.—Danville Creamery Co., O. E. Hatcher, Pres., Danville, Va.—Creamery machinery; also line shafting and boilers. (See Boilers.)

Cutters.—See Silos and Cutters.

Dredging.—C. G. Fisher, care Alton Beach Realty Co., 210 12th St., Miami, Fla.—Bids (from dredging companies in vicinity preferred) on additional yard contract; about 100,000 yds. of material is sand easily pumped; balance, 20 ft. cochineal rock.

Drinking Cups, etc.—State Board of Health, Dr. Ennon G. Williams, Commr., Richmond, Va.—Data and prices from manufacturers of and dealers in drinking cups, cabinets and vendors, and drinking fountains with coolers attached for use in schools and public places.

Electrical Equipment.—Victor Jacques, Civil Engr., Ave. Louise 521, Brussels, Belgium.—Correspondence (view to agency) with manufacturers of materials and equip-

of wholesale dealers in cedar and locust posts; in South and East preferred.

Presses (Baling).—L. C. Seymour, 5117 Hubbard Ave., Chicago, Ill.—Direct or belt-connected steel baling presses for waste material.

Presses (Filter).—Freeland-Klyce Engineering Co., 65 Life and Casualty Bldg., Nashville, Tenn.—Correspondence with manufacturers of filter presses, capacity 200 tons per 24 hrs.; to press water from sisal hemp pulp; solids to be burned.

Printing Machinery.—Free Will Baptist Publishing Co., J. C. Griffin, Prest., Ayden, N. C.—New or second-hand (first-class) intertype or cylinder press; 16 to 20 impressions per minute.

Pump.—Drawer 478, Selma, Ala.—Belt-driven, high pressure, single stage, horizontal centrifugal pump for 45 to 50 lbs. pressure with 120 to 130 gals. capacity per min. State H. P. required; also size of suction and discharge.

Pump.—Geo. J. Adams, 39 South St., corner Old Slip, New York.—Dry vacuum pump; second-hand; capacity 10,000 C. F. per min.

Pump, etc.—Cadiz Water Co., G. L. Smith, Prest. and Gen. Mgr., Cadiz, Ky.—Pump (centrifugal preferred), operated by electric power, for domestic (75,000 gals. per 24 hrs.) and fire uses; also electric motor for same, directly connected; top of 50-ft. standpipe is 185 ft. above pump station.

Pumps.—See Water-works Equipment.

Pumps.—C. E. Wildasin, care Davis Acetylene Co., Glade Spring, Va.—Addresses of manufacturers of hand air pumps for supplying tanks.

Pumping Station.—Sewerage and Water Board, F. S. Shields, Secy., 508 City Hall Annex, New Orleans, La.—Bids until Feb. 26 to construct 1-story brick building, 90x55 ft., to be known as Drainage Pumping Station No. 5, contract 61-D; work will require following: Excavation, 20,000 cu. yds.; round piling, 56,000 lin. ft.; sheet piling and bracing, 240,000 ft. B. M.; concrete, 3600 cu. yds.; structural steel, 52 tons; steel rods, 300,000 lbs.; specifications, etc., on application.

Rails.—Beaver Railroad & Construction Co., John E. Swain, Secy., Beaver, Okla.—Prices on rails. (See Railroad Equipment.)

Rails.—Chas. H. Stone, Box 1242, Springfield, Mass.—Trackage for brick-yard, Winston-Salem, N. C. (See Steam Shovel, etc.)

Rails and Ties.—Belfast Land Co., 39 N. 2d St., Wilmington, N. C.—Ties and rails for one-mile railway; second-hand.

Railroad Equipment.—Beaver Railroad & Construction Co., John E. Swain, Secy., Beaver, Okla.—Prices on locomotive, cars, rails, supplies, etc. (See Railroad Equipment.)

Railway Equipment.—Victor Jacques, Civil Engr., Ave. Louise 521, Brussels, Belgium.—Correspondence (view to agency) with manufacturers of materials and equipment for street railway. (See Electrical Equipment.)

Retaining Walls.—E. B. Bonney, City Secy., Houston, Tex.—Bids until Feb. 6 to construct 4 retaining walls for construction of Houston Ave. bridge across White Oak bayou; plans and specifications at office of E. E. Sands, City Engr.

Refrigerating Plant.—Roland Woodward, Mgr., American Securities Co., Jacksonville, Fla.—Addresses of manufacturers of small refrigerating plant for country residence.

Road Construction.—Anne Arundel County Comms., Annapolis, Md.—Bids until Feb. 17 to construct section of State-aid highway along Mountain Rd. between Annapolis Blvd. and Armiger, distance 1 mi.; E. T. Hayman, Road Engr.; information on application to State Roads Com., Garrett Bldg., Baltimore.

Road Construction.—Greene County Pike Com., H. J. Wisecarver, Secy., Greenville, Tenn.—Bids until Feb. 24 to grade about 130 mi. road; profiles and specifications at office of R. O. Gallaher, Chief Engr.

Road Construction.—State Roads Com., O. E. Weller, Chmn., 601 Garrett Bldg., Baltimore, Md.—Bids until Feb. 17 to build 4 sections of State highway, about 13.44 mi., as follows: Garrett county, 2.75 mi. concrete or macadam between Hoyes and Accident; Harford county, 2.56 mi. concrete, macadam or gravel between Grafton Shops and Jarrettsville; Cecil county, about 5 mi. concrete, macadam or gravel between Chesapeake City and Fredericktown; Worcester county, about 3.13 mi. concrete or macadam between Betheden Church and Hardship Branch; amounts approximate; plans and specifications on application.

Road Construction.—Jackson County Comms., Marianna, Fla.—Bids until Feb. 21 to construct following hard surfaced roads: No. 1, from Bascom to Neals Landing, 8 mi.; No. 2, Marianna and Campbellton Rd. to Graceville, about 8 mi.; No. 4, Chipley west to Leavins bridge, about 8 mi. (1 mi. of which has been contracted for); No. 5, from Arch Hamilton's on Sneads and Dellwood Rd. to connect with Sneads and Cypress Rd.; No. 6, Joe Pittman Rd. from Jake Peeler's place north through Malone to Alabama line, about 5 mi.; No. 8, from Marvins Chapel via Braxton's Star and Merritt's Rd.; No. 9, Cypress Creek Rd. from Cottondale to county line, about 8 mi.

Road Machinery.—L. F. Hobbs, Box 483, Norfolk, Va.—First-class second-hand 3-wheel 10-ton roller, and 12 or 15 wheel scrapers.

Road Machinery.—Talbot County Commissioners, Frank W. Seth, Engr., Easton, Md.—Will probably want prices (in the spring) on limited amount of road equipment.

Roofing.—Chas. H. Stone, Box 1242, Springfield, Mass.—Cheap roofing for cottages in connection with brick-yard, Winston-Salem, N. C.

Safe.—Bank of Laurens, Laurens, S. C.—Prices on safe.

Sand Blast Equipment, Galvanized Sheet Steel, etc.—Office of Gen. Purchasing Officer, Isthmian Canal Com., F. C. Boggs, Major, Corps of Engrs., Washington,

nections in Dist. No. 43-A, contract No. 131; 23,500 lin. ft. vitrified sewer pipe, 8 in. to 24 in. in diam., and 19,500 lin. ft. vitrified pipe house connections; specifications at office of Sewerage Com., Harry W. Rodgers, Secy., 904 American Bldg.

Sewers.—City of Houston, Tex., E. E. Sands, City Engr.—Bids until Feb. 7 to construct storm sewers on Milam to San Jacinto St., etc.; cost \$16,000.

Shafting.—Danville Creamery Co., O. E. Hatcher, Prest., Danville, Va.—Line shafting. (See Creamery Machinery.)

Silos and Cutters, etc.—Riverdale Farm Co., H. F. Gangner, Prest., Cotulla, Tex.—Data on silos and silo cutters.

Skylights.—Manly Jail Works, Dalton, Ga.—Prices on metal skylights.

Smokestack.—Walter A. Zelnicker Supply Co., St. Louis, Mo.—Smokestack 11 to 15 in. diam, 50 to 150 ft. high.

Sprocket Wheels.—Christopher Press Controller Co., B. F. Van Dyke, Secy., Granite, Okla.—Prices on sprocket wheels.

Steam Shovel, etc.—Chas. H. Stone, Box 1242, Springfield, Mass.—Small second-hand steam shovel; also trackage for brick-yard.

Steel Boxings.—Christopher Press Controller Co., B. F. Van Dyke, Secy., Granite, Okla.—Prices on 3/4-in. round steel boxings.

Steel Hoops, etc.—Navy Dept., Bureau of Supplies and Accounts, T. J. Cowie, Paymaster-Gen., Washington, D. C.—Bids March

FOR the benefit of business concerns, engineers, contractors, machinery manufacturers, dealers and others who find it profitable to follow up daily the industrial, commercial, railroad and financial development of the South and Southwest as published in this Construction Department.

We issue every Business Day in the Year THE DAILY BULLETIN

The construction news as published in the Daily Bulletin is invaluable to all business people who want to keep in daily touch with the organization of business enterprises of all kinds throughout the whole South. Unlimited possibilities for the creation of business, for securing contract work, for the sale of machinery and supplies of all kinds, for bond buyers and others, are to be found through a close following up of the news in the Daily Bulletin.

The Daily Bulletin is an exceptionally desirable advertising medium.

The subscription price is \$25.00 a year. Are you a subscriber to it, or an advertiser in it? If not, you are missing an opportunity for profitable business.

D. C.—Bids until Feb. 21 to furnish sand blast equipment, galvanized sheet steel, steel cable, chain, wire, bolts, plate washers, sheet brass, sheet copper, bronze bars, brass tubing, copper tubing, brass unions, sheet zinc, solder, shovels, hammers, hinges, wheelbarrows, corn brooms, life preservers, hose, manilla rope, magnesia pipe covering, paving brick, fire clay and lampblack; blanks and general information relating to this circular (No. 826) may be obtained from this office or offices of assistant purchasing agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1065 North Point St., San Francisco; also from U. S. Engr. offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash.

Sand and Gravel.—Falls City Construction Co., Louisville, Ky.—Prices f. o. b. cars, Bastrop, La., on washed sand and gravel per cu. yd. for courthouse at Bastrop; wants prices and samples sent to Louisville.

Shafting.—Christopher Press Controller Co., B. F. Van Dyke, Secy., Granite, Okla.—Prices on 1 1/4-in. steel shafting.

Sash (Mill).—Manly Jail Works, Dalton, Ga.—Prices on mill sash.

Sewers.—Board of Awards, John Hubert, Acting Prest., Baltimore, Md.—Bids until Feb. 11 at office of City Register, City Hall, to construct lateral sewers and house con-

nections in Dist. No. 43-A, contract No. 131; 23,500 lin. ft. vitrified sewer pipe, 8 in. to 24 in. in diam., and 19,500 lin. ft. vitrified pipe house connections; specifications at office of Sewerage Com., Harry W. Rodgers, Secy., 904 American Bldg.

Surfacer.—Shapiro Antique Shops, Flat Iron Bldg., Charlotte, Granby and Bute Sts., Norfolk, Va.—Second-hand 30-in. single surfacer; American No. 4 1/2 preferred. Send data, price and cut.

Sweepers (Street), etc.—City, W. L. Wannamaker, City Clerk, Chillicothe, Mo.—Prices on street flusher and sweepers.

Tanks.—International Storage & Warehouse Co., Joseph Bogaerts, Prest., temporary address, St. Charles Hotel, New Orleans, La.—Prices on 6 25,000-barrel tanks with steel roofs.

Telephone System.—City of Victoria, Va., H. T. Falson, Clerk.—Bids on telephone franchise.

Telephone and Telegraph Supplies.—Victor Jacques, Civil Engr., Ave. Louise 521, Brussels, Belgium.—Correspondence (view to agency) with manufacturers of telephone and telegraph supplies.

Ties (Railroad).—See Rails and Ties.

Tile, etc.—Navy Dept., Bureau of Supplies and Accounts, T. J. Cowie, Paymaster-Gen., Washington, D. C.—Bids until Feb. 17 to furnish floor tile, schedule 6320; sponges, schedule 6312; delivery Navy-yard, Norfolk, Va.; for copies apply to navy pay office nearest navy-yard.

Tiling.—See Flooring.

Traction Engines (Gasoline).—S. H.

Baker, Box 884, Richmond, Va.—Prices on gasoline traction engines.

Trucks.—Box 1417, Jacksonville, Fla.—20 pairs standard gauge M. C. B. trucks; 40,000 lbs. capacity; 24 or 26-in. wheels; second-hand, good order.

Valves.—Board of Awards, John Hubert, Acting Prest., Baltimore, Md.—Bids until Feb. 11 at office of City Register, City Hall, to furnish gate valves for distribution mains, contract No. 25, as follows: 72-in., 60-in., 48-in., 12 30-in. and 2 24-in. valves; plans and specifications at office of Ezra B. Whitman, Water Engr., City Hall.

Vault Doors.—See Bank Fixtures, etc.

Ventilators.—Manly Jail Works, Dalton, Ga.—Prices on galvanized ventilators.

Water-works Equipment.—Wm. S. Canning, Engr., Jackson, Ky.—Prices on wrought steel pipe, asphalt coating for same, L's, T's, Y's, valves, strainers etc.; also pumps up to 500-gal. capacity per minute; boilers same capacity; simple filter and general supplies necessary for installing water-works system to supply town of 2500 people.

Water-works and Electric-Light Plant.—J. A. Harps, Propr. of Never Fail Farms, Pineview, N. C.—Prices on combination water and electric-light plant; gasoline engine to operate pump, elevating water to tank 40 ft. high from well 120 ft. deep, cased 4 in.; also air compressor to operate tank under ground for dwelling use; storage batteries for light plant; plans to operate plant by one engine and have 100 lamps of 110 volts.

Woodworking Machinery.—See Surfacer, Norfolk, Va.

Woodworking Machinery.—Southern Novelty Works, Mobile, Ala.—Prices on hollow chisel mortising machine, tenoning machine, pony planer, jointing machine, cut-off saw and sand drum.

Woodworking Machinery.—Garrett Mfg. Co., Roanoke, Va.—Tenoner and mortiser.

Woodworking Machinery.—W. D. Mosley, 1214 California St., El Paso, Tex.—Prices on woodworking (small) machinery.

Woodworking Machinery.—Roanoke Spoke & Handle Co., Roanoke, Va.—Prices on spoke lathe and tenoner; could use first-class second-hand.

FINANCIAL NEWS

FINANCIAL CORPORATIONS

Ala., Tallahassee.—Bank of Tallahassee chartered; capital \$15,000; Geo. D. Patterson, Prest.; Jesse Gullledge and T. D. Brassell, V. Ps.; R. H. Hays, Cash. Business began Sept. 2, 1913.

Ark., McRae.—Chartered; McRae State Bank.

D. C., Washington.—Real Estate Investment Co. is organized with H. W. Hilleary Prest., Charles S. Robb V. P., Walter R. Tuckerman Treas., Headquarters will be at 816 Connecticut Ave. N. W. Interests of H. W. Hilleary and other real estate interests have been merged with the new company.

Fla., Dade City.—First National Bank has made application for charter; capital \$25,000; organizers, L. J. Cooper, O. L. Dayton, J. R. Walker, C. E. Spencer, G. A. McLeod and others.

Ga., Cairo.—Whigham School Dist., Grady county, will vote Feb. 7 on \$8000 6 per cent. building bonds; denomination \$250. Address County Comms.

Ga., Clio.—Chartered; Farmers and Merchants' Bank; incorporators, U. L. Elzey, W. T. Green, O. M. Morgan, W. C. Reiser, C. W. Edwards, C. B. Guann and S. T. Metzger.

Ga., Stateville.—Bank of Stateville is organized with \$25,000. L. J. Cooper of Waycross is at the head of the institution.

Ga., Winder.—Farmers' Bank has made application for charter; incorporators, John A. Thompson, C. O. Niblock, D. F. Thompson and R. L. Woodruff.

Md., Rockville.—Montgomery county is reported to have sold \$25,000 4 1/2 per cent. road bonds. Berry E. Clark is Clerk.

Ky., Paris.—People's Building and Loan Assn., Inc., capital \$100,000, will begin business Feb. 1; organizers, Dr. F. P. Campbell, Dr. D. S. Henry, Silas Bedford, William Bryant and Jno. B. Northcutt.

La., Franklin.—Realty Abstract & Sales Co. chartered; capital \$10,000; began busi-

ness Feb. 1; Wilson T. Peterman, Prest. (Previously mentioned.)

Md., Hagerstown.—Washington County Title & Mortgage Co. inceptd.; capital \$50,000; incorporators, Charles D. Wagoner, Levin Stonebraker, J. V. Jamison, Frank G. Wagoner and George B. Stonebraker.

Mo., Booneville.—Cooper County Building Loan Assn. incorporated; capital \$300,000; began business Jan. 17 with H. E. Moore Prest., M. E. Schmidt V.-P., J. S. Underwood Secy.-Treas., J. H. Windsor Counselor.

Mo., Branson.—Branson Building and Loan Assn. inceptd.; capital \$50,000; incorporators, David Parnell, C. H. Nichols and C. M. Thompson.

Mo., Emma.—Bank of Emma inceptd.; capital \$20,000; will begin business about Mch. 1; directors, Wm. F. Dierker, C. Wierberg, Louis Weber, Sweet Springs, Mo.; Chas. Dierking, Wm. Fischer, Emma; H. Beesman and B. A. Hoelscher, Concordia, Mo.

N. C., Durham.—City is considering question of calling an election to vote on \$500,000 water-plant bonds; W. J. Brogden, Mayor.

Okla., Beggs.—Chartered: Farmers' National Bank of Beggs, capital \$25,000. W. G. Reynolds, Prest.; R. L. A. Stogdler, Cash. This succeeds Farmers' State Bank of Beggs.

S. C., Bamberg.—Chartered: Enterprise Bank; capital \$30,000; will begin business Feb. 1 with H. M. Graham, Prest.; C. E. Black, Cash., and N. A. Hunt, V.-P.

S. C., Charleston.—Chartered: Realty Investment Co., capital \$10,000; W. H. Mixon, Prest.; G. B. Buell, V.-P.; R. G. White, Secy.-Treas.

S. C., Charleston.—Chartered: City Investment Co.; capital \$15,000; W. S. Cook, Prest.; J. A. Storfer, V.-P.; R. G. White, Secy.-Treas.

S. C., Clinton.—Chartered: Commercial Loan & Trust Co.; capital \$25,000; organizers, L. H. Davidson, Geo. W. Young, E. J. Adair, H. D. Henry, J. J. Copeland and J. D. Bell. Business is to begin about Mch. 1.

S. C., Columbia.—Lower Main St. Bank has begun business at 907 Main St. with \$50,000 capital; Bruce Walker Ravenel, Prest.; W. M. Gibbs, Jr., and E. B. Gresham, V.-P.s; S. C. Rhame, Cash.

S. C., Laurens.—Farmers' Bank commissioned; capital \$50,000; will begin business about Mch. 1 in Laurens Trust Co. building. Charter is to be applied for. Organizers, M. J. Owings, J. C. Owings and R. Fleming Jones.

S. C., Newberry.—Newberry Trust Co. commissioned; capital \$30,000; petitioners, E. M. Snow of Greensboro, N. C., and R. M. Werts and T. K. Johnstone.

Tenn., Livingston.—First National Bank of Livingston inceptd.; capital \$25,000; surplus \$45,000; W. C. Murphy, Prest., Hilham, Tenn.; A. G. Keisling, V.-P., and W. H. Estes, Cash., Livingston, Tenn. Business has begun.

Tenn., Dresden.—Duke M. Farson, Chicago, purchased at par and accrued interest to date of delivery \$27,000 6 per cent. 20-year municipal water and light bonds; R. L. Suddath, Mayor.

Tex., Bonham.—Defeated: \$300,000 Precinct No. 1, Fannin county, road bonds. It is expected to hold another election in about 30 or 40 days. Address County Comms. Will H. Evans is Prest. Bonham Board of Trade.

Tex., Dallas.—Chartered: Mercantile Investment & Mortgage Co.; capital \$50,000; incorporators, Asher Mintz, Adam H. Davidson and Paul S. Miller.

Tex., Dallas.—Wood Investment Co. chartered; capital \$25,000. This is an incorporation of business of A. B. Wood; incorporators and directors, A. B. Wood, George T. Burgess and Thos. W. Hopkins. Business is to begin Feb. 1.

Tex., El Paso.—Commercial Loan & Mortgage Co., capital \$150,000; inceptd., Ed. Dickinson, W. E. Small and John T. Muir.

Tex., El Paso.—Commercial Loan & Mortgage Co. chartered; capital \$150,000; incorporators, Ed Dickinson, John T. Muir and C. B. Hudspeth.

Tex., Gatesville.—Feb. 14 Coryell county will vote on \$75,000 bonds Road Dist. No. 1. Address County Comms.

Tex., Greenville.—The \$400,000 Hunt county road bonds recently voted will probably be placed on the market about May 1; Geo. B. Hall, County Judge.

Tex., Jasper.—Chartered: Citizens' National Bank; capital \$25,000; surplus, \$2500; business began Jan. 20 with W. J. B. Adams Prest.; W. P. Cook, L. C. Stewart, V.-P.s; John H. Seale, Cash.; directors, A. N. Stone, Wesley McKee, Abel Adams, F. W. Stewart and E. A. Seale.

Tex., Winfield.—Approved: First National

Bank; capital \$40,000; organizers, Julius W. Barrett, G. W. Tallafiero, C. E. Harvey, A. Chapman and T. L. Denman.

Tex., Wichita Falls.—National Bank of Commerce is being organized by local capitalists; capital to \$100,000.

Tex., Woodville.—Tyler County State Bank is authorized to do business; capital \$20,000; Geo. W. Riddle of Dallas, Prest.; E. A. Dismukes, Cash.

Va., Mendota.—Mendota Bank inceptd.; capital \$10,000; J. S. Dorton, Prest.; A. B. English, V.-P.; J. E. Ellington, A. C. Rice and V. C. Barker, directors. Business is to begin Mch. 2.

W. Va., Albright.—Chartered: First National Bank of Albright; capital \$25,000; Elmer E. Watson, Prest.; Herbert H. White, Cash.

NEW SECURITIES

Ala., Birmingham.—Ordinance is prepared providing for the issuing of \$40,000 5 per cent. 10-year bonds for purpose of paying outstanding contractors' estimates for public improvements; denomination \$500. H. S. Ryall, City Clerk; Geo. B. Ward, Prest. Board of Commissioners.

Ark., Carlisle.—A St. Louis company has purchased \$10,000 Carlisle improvement district bonds. Address Dist. Comms.

Ala., Clanton.—Mch. 1 city will vote on \$25,000 5 per cent. 30-year water-works bonds. Address The Mayor.

Ala., Hurtsboro.—Mch. 2 election is called to vote on \$24,000 6 per cent. 10-year electric-light and water-works bonds; dated Jan. 2, 1914; maturity Jan. 2, 1924. Date for opening bids not yet decided. Wheeler Williams, Mayor.

Ark., Helena.—Mrs. Dan McDonald has purchased for \$37,500 bonds of Paving Dist. No. 11. Address The Mayor.

Fla., Bartow.—Feb. 17 election will be held to vote on \$60,000 30-year water-works bonds; interest not to exceed 5 per cent. Address The Mayor.

Fla., Bartow.—Bids will be received by C. A. Parker, Supt. Public Instruction, until 11 A. M. Feb. 10 for \$15,000 5 per cent. 20-year bonds Auburndale Special Tax School Dist. No. 6, Polk county.

Fla., Daytona.—March 24 election is called to vote on \$175,000 sewerage bonds. Address The Mayor.

Fla., Passagrille.—The \$3000 water-works, \$2500 electric-light, \$1000 street crossing, \$3500 seawall and \$1000 street and alley improvement 6 per cent. 30-year bonds voted last Dec. are being offered for sale. James Henry is Town Clerk.

Fla., Starke.—Bids will be received until noon Feb. 9 by F. G. Schell, Supt. Public Instruction, for \$11,000 6 per cent. 30-year School District No. 25, Bradford county, building bonds; denomination \$1000; dated Jan. 1, 1914; maturity Jan. 1, 1914.

Fla., St. Petersburg.—March 3 election is called to vote on \$25,000 5-30-year gas plant bonds. Address City Comms.

Ga., Austell.—City has authorized an issue of \$25,000 of water-works and sewerage bonds. C. J. Shelverton, Mayor.

Ga., Blackshear.—Election is about to be held to vote on \$5000 6 per cent. 15-year water-improvement bonds. Address The Mayor.

Ga., LaGrange.—LaGrange Banking & Trust Co. has purchased \$25,000 high-school and \$150,000 water bonds at par; maturity 1929 to 1943. Address J. D. Edmondson, Mayor. T. J. Harwell is Clerk and Treas.

Ga., Shellman.—Voted: \$15,000 6 per cent. 30-year sewerage bonds; denomination \$1000. W. S. Short, Mayor.

Ga., Trenton.—Election will probably be held in Dade county to vote on road-construction bonds. Address County Comms.

Ga., Valdosta.—J. H. Hillsman & Co., Atlanta, have purchased \$50,000 5 per cent. water and street bonds. Address The Mayor.

Ky., Berea.—Voted: Berea School Dist., Madison county, school-building bonds. Address County Comms.

Ky., Clinton.—Bids will be received by H. M. Cresap, Chrmn. Board of Drainage Commissioners, until 1 P. M. Feb. 23 for \$53,750 6 per cent. Bullock Drainage Dist. bonds.

Ky., Elizabethtown.—Elizabethtown Graded School Dist. will vote on \$25,000 school bonds. Address Board of Trustees.

Ky., Lexington.—Comms. Fayette County are considering question of calling an election to vote on \$500,000 road-improvement bonds.

La., Bastrop.—Bids received until Mch. 1 for \$26,000 5 per cent. 33-year municipal improvement bonds. Address W. H. Hampston, Mayor. Further particulars will be found in the advertising columns.

La., Baton Rouge.—Secretary of State has registered \$900,000 5 per cent. Calcasieu parish road bonds. Address Police Jury.

Md., Easton.—Town is seeking authority to issue \$30,000 electric-lighting-plant bonds. Address Mayor Higgins.

Md., Cumberland.—Bill is to be introduced in the Legislature for authority to issue \$60,000 of bonds to cancel balance due on account of construction and installation of the Evert's Creek water supply; Geo. G. Young, Mayor.

Md., Kensington.—A bill is to be introduced in the Legislature providing for an issue of \$60,000 water and sewer bonds. Address The Mayor.

Md., Upper Marlboro.—Petition is to be made to the Legislature to bond Prince George's county for \$15,000 school bonds. O. B. Zantlinger, 9th St. and New York Ave., Washington, D. C., is Prest. Prince George's County School Board.

Miss., Laurel.—Provident Savings Bank & Trust Co., Cincinnati, has purchased at \$84 premium \$40,000 5 per cent. 20-year street and building bonds; D. A. Scarborough, City Clerk.

Miss., Mississippi City.—Steps are being taken to issue school bonds for Mississippi City School Dist. Address School Trustees.

Miss., New Albany.—Hoehler, Cummings & Pruden, Toledo, have been awarded at par \$33,000 6 per cent. 1-20-year bonds Tallahatchie Drainage Dist., Union county.

Miss., Poplarville.—Pearl River County Industrial Consolidated School Dist. is offering for sale \$5000 5 per cent. school construction bonds; denomination \$500; dated Feb. 2, 1914. H. K. Ransie is Chancery Clerk.

Miss., Purvis.—Last November reports stated that Board of Suprvs. Lamar County had authorized issue of \$15,000 of bonds to rebuild girls' dormitory at agricultural school. R. L. McNair, Clerk, now writes: "No bond issue at present."

Miss., Tupelo.—The \$40,000 Lee county road bonds offered Feb. 2 run 10-25 years, interest not to exceed 6 per cent.; denomination \$500; dated Oct., 1913; J. M. Witt, Clerk.

Miss., Tunica.—The \$20,000 agricultural and Loan Assn. inceptd.; capital \$300,000; year 6 per cents. Address County Comms.

Miss., Waynesboro.—Bids were received until noon Feb. 2 for \$10,000 5 per cent. 10-20-year Wayne county good-roads bonds voted Sept. 1, 1913; denomination \$1000; dated Jan. 1, 1914; maturity 1923, optional 1923; W. A. Bodie, Chancery Clerk.

Mo., Maryville.—Geo. W. Demott, Clerk, Nodaway county, will receive bids until 10 A. M. Feb. 16 for \$50,000 Polk township road bonds; interest not to exceed 6 per cent.; denomination \$500; dated March 1, 1914.

Mo., St. Joseph.—School Board proposes to issue between \$140,000 and \$150,000 funding bonds.

Mo., St. Louis.—School Board will sell on March 2 issue of \$140,000 4½ per cent. 10-20-year funding bonds.

N. C., Franklin.—Sidney Spitzer & Co., Toledo, have been awarded \$80,000 Franklin Township, Macon county, road bonds. Address Secy. Highway Com.

N. C., Greenville.—Bids will be received by W. H. Ragsdale, Chrmn. Board of Trustees Grimesland School Dist., Pitt County, for \$6000 5 per cent. 30-year bonds.

N. C., Kinston.—Stacey & Baum, Toledo, were the purchasers of the \$50,000 5 per cent. 20-year school bonds recently reported sold; W. B. Coleman, City Clerk.

N. C., Lenoir.—Cincinnati firm has purchased at 1.03 and accrued interest graded school bonds. Address The Mayor.

N. C., Oxford.—Mayor and Town Comms. will probably soon place on the market \$10,000 street and sidewalk bonds.

N. C., Salisbury.—Steps are being taken to issue school bonds. Address School Board.

N. C., Smithfield.—Bids will be received until noon Feb. 23 for \$12,000 5 per cent. 30-year municipal bonds; denomination \$500; dated Jan. 1, 1914. Address Board of Town Comms., Jas. A. Wellons, Mayor; H. L. Skinner, Clerk. Further particulars will be found in the advertising columns.

N. C., Taylorsville.—Steps are being taken to call an election in Alexander county to vote on road bonds. Address County Comms.

N. C., Wilmington.—Mch. 24 election is called to vote on \$200,000 of bonds for municipal wharves and other terminal facilities;

Thomas D. Mears, City Clerk and Treas.

Okla., Stratford.—A letter says that the city will soon call an election to vote on \$35,000 of water-works and electric-light construction bonds. The Mayor may give information.

Okla., Wellington.—Bids will be opened Feb. 15 for \$12,000 5 per cent. 10-40-year Independent School Dist. schoolhouse bonds; denomination \$1000; dated July 1, 1913. Address John Williamson, Secy.

S. C., Allendale.—Allendale School Dist. has recently voted \$15,000 of school and refunding bonds. Address Town Comms.

Tenn., Camden.—Election is to be called about March 1 to vote on \$20,000 school bonds. Address The Mayor.

Tenn., Chattanooga.—First National Bank, Cleveland, O., purchased at premium of \$38.90, accrued interest and par \$5478.40 6 per cent. 1-4-year street-paving bonds; T. C. Thompson, Mayor.

Tenn., Chattanooga.—Hamilton County Court has voted to issue \$100,000 of bonds for improvement of bridge across Tennessee River.

Tenn., Cleveland.—Harris Bank & Trust Co., Chicago, were awarded the \$75,000 5 per cent. 5-25-year sewerage bonds at par, less attorney's fee, printing of bonds, etc. T. E. Thatch, Mayor.

Tenn., Greeneville.—Bids will be received until noon Feb. 26 for \$200,000 5 per cent. 30-year Greene county pike bonds; denomination \$1000; dated Oct. 15, 1913. Address Greene County Pike Comms., H. J. Wisecarver, Secy.

Tenn., Jackson.—Bids will be received until noon Feb. 17 by R. H. Anderson, City Auditor, for \$35,000 water-works and \$25,000 street 5 per cent. 20-year bonds; denomination \$1000; dated Jan. 1, 1914—April 1, 1914; maturity Jan. 1, 1934—April 1, 1934.

Tenn., Knoxville.—Knox county Quarterly Court will probably issue \$150,000 or \$200,000 of school bonds.

Tenn., Lynchburg.—City will probably issue \$15,000 or \$20,000 street bonds. Address The Mayor.

Tenn., Manchester.—Election is to be held in Coffee county to vote on \$150,000 road bonds. Address County Comms.

Tex., Athens.—Henderson county is reported considering question of issuing \$45,000 levee bonds. Address County Comms.

Tex., Austin.—Attorney-General has approved the following securities: \$30,000 5 per cent. 10-40-year Smith County Road Dist. No. 4 bonds; \$16,000 5 per cent. 10-40-year street-improvement bonds Winsboro; \$2000 6 per cent. 10-40-year city hall bonds DeLeon; \$250,000 5 per cent. 10-40-year Nueces county courthouse and jail bonds.

Tex., Bastrop.—Bastrop county will vote Feb. 17 on \$30,000 road bonds. Address County Comms.

Tex., Bay City.—Commonwealth Trust Co., Houston, is reported to have recently purchased \$60,000 6 per cent. 1-10-year Matagorda county refunding warrants; denomination \$1000. Address County Comms.

Tex., Beaumont.—Voted: \$500,000 bonds; \$400,000 for purchase of plant of Beaumont Water-works Co. and \$100,000 for improvement of same. Address The Mayor.

Tex., Bonham.—Chicago parties are reported to have purchased \$75,000 high school bonds. Address Mayor Spangler.

Tex., Cameron.—Feb. 21 Dist. No. 6, Cameron county, will vote on \$100,000 road bonds. Address County Comms.

Tex., Channing.—Hartley county has purchased at par \$15,000 5 per cent. 40-year Common School Dist. No. 1, Hartley county; denomination \$100; dated June 10, 1913. Address Trustees of Dist.

Tex., Clarksville.—City propose to issue \$20,000 street paving bonds. Address Finance Committee.

Tex., Dallas.—Bids will be received until noon Feb. 25 for \$1,325,000 4½ per cent. bonds as follows: \$300,000 sewage disposal bonds, dated May 1, 1913, maturing May 1, 1953; \$275,000 city hall building bonds, dated May 1, 1913, maturing May 1, 1953; \$250,000 public school improvement bonds, dated May 1, 1913, maturing serially, beginning May 1, 1914, in equal annual installments for 40 years; \$500,000 park improvement bonds, dated Nov. 1, 1913, maturing serially, beginning Nov. 1, 1914, \$12,000 and \$13,000 each alternate year for 40 years; denominations \$1000. W. T. Henderson, Comms. Finance and Revenue. Further particulars will be found in the advertising columns.

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STATE, CITY AND CORPORATION FINANCING

Entire Issues Bought and Sold

Mercantile Trust & Deposit Company
OF BALTIMORE

Capital - - - \$1,500,000
Surplus - - - \$3,000,000

Thoroughly organized to exercise all Banking and Trust Company functions.
Correspondent for Banks and Trust Companies.

A. H. S. POST - - President

Tex., Denton.—The Good Roads Committee of the Chamber of Commerce has decided to withdraw petition for \$300,000 road-bond election ordered for Feb. 21, and will make arrangements for another petition calling for more compact district. (Previously noted.)

Tex., Gainesville.—Election called for Feb. 7 to vote on \$700,000 Cooke county road bonds is postponed indefinitely. Address Comms. Court.

Tex., Georgetown.—Round Rock School Dist., Williamson county, has sold \$29,000 building bonds. Address County Comms.

Tex., Hempstead.—Voted: \$150,000 Huntsville Precinct, Waller county, road bonds. Address Dist. Comms.

Tex., Kaufman.—Election to vote on \$300,000 bonds for roads in Terrell and Forney Dist., Kaufman county, is called for Feb. 24. Address County Comms.

Tex., Kaufman.—Levee Dist. No. 1, Kaufman county, has voted to issue \$86,000 levee improvement bonds. Address Dist. Comms.

Tex., Marshall.—City will purchase \$7000 5 per cent. 10-40-year Craven Park improvement bonds; denomination \$1000; dated Jan. 1, 1914. Address City Secy.

Tex., Pecos.—Voted: \$100,000 5 per cent. 40-year bonds Road Dist. No. 1, Reeves county. Bonds will probably be of \$1000 denomination and dated Feb. 9, 1914. Date of opening bids not yet determined. Address H. N. McKellar, County Judge and Charman, Commissioners' Court, or Miss Willie de Woods, County Clerk.

Tex., Rocksprings.—Reported that \$15,000 bonds Common School Dist. No. 6, Edwards county, will soon be offered for sale. Address Dist. Comms.

Tex., Terrell.—City has for sale \$85,000 school and \$40,000 hall 5 per cent. 10-40-year bonds voted Jan. 6, 1914; denominations \$500 and \$1000; dated Jan. 13, 1914; Joel R. Bond, Mayor.

Tex., Tyler.—J. F. Odom, County Judge, has closed contract for sale of \$75,000 Lindale Dist., Smith county, road bonds.

Tex., Waxahachie.—Reported defeated: \$35,000 Midlothian Dist., Ellis county, road bonds. Address Dist. Comms.

Tex., Weatherford.—J. T. Cotton, Weatherford, has purchased \$4000 5 per cent. 20-40-year sewer-extension bonds. Hugh McGratton is Mayor.

Tex., Wharton.—Mch. 5 election is called to vote on \$100,000 5½ per cent. Wharton county road and bridge bonds. Address County Comms.

Tex., Wolfe City.—State of Texas has purchased \$9500 5 per cent. school district bonds voted May 9, 1912; denomination \$500; dated July, 1912; maturity 1932; H. E. Vaughn, Prest. School Board.

Va., Culpeper.—Catapa Magisterial Dist., Culpeper county, has sold at par \$2000 of the \$40,000 5 per cent. road bonds. Address Dist. Comms.

Va., Eastville.—Geo. T. Tyson, clerk Board of Suprs. of Northampton County, will receive bids until noon Mch. 2 for all or any part of \$16,000 5-30-year county jail bonds; denomination \$500. Further particulars will be found in the advertising columns.

Va., Onancock.—Accomac county has sold \$30,000 road bonds as follows: Dr. Julius C. Hall, Pocomoke City, Md., \$11,000 at 5½ per cent.; C. Olin Disbrow, Chincoteague, \$1000 at 5 per cent.; Ollie L. Parker, Onancock, \$18,000 at 5½ per cent., and L. Parker, Onancock, \$18,000 at 5½ per cent. and \$25 premium.

W. Va., New Martinsville.—Bids will be opened Feb. 29 for \$50,000 6 per cent. 30-year road bonds Grant Dist., Wetzel county, being part of an issue of \$150,000; denomination \$1000, \$500 and \$100; dated Dec. 1, 1912; redeemable in 10 years at option of County Court of Wetzel County. Address L. E. Lantz, Secy. Board of Road Comms., Wetzel County, care of Bank of Jacksonburg, Jacksonburg, W. Va.

W. Va., Huntington.—Huntington Independent School Dist. will vote Mch. 7 on \$500,000 5 per cent. 10-20-year building bonds. Address Dist. Comms.

W. Va., Parkersburg.—March 19 election is to be held to vote on \$70,000 5 per cent. 20-30-year road and bridge bonds, Williams Dist., Wood county; denomination \$100, \$500 and \$1000. Wm. Dudley, Clerk, Wood County Court.

W. Va., White Sulphur Springs.—On Feb. 28 town will sell \$17,500 6 per cent. 10-20-year municipal bonds; E. C. Curry, member Bond Committee; B. F. Dixon, Mayor. Further particulars will be found in the advertising columns.

FINANCIAL NOTES

Louisiana State Bankers' Assn. will meet at Shreveport Feb. 14.

Bank of Albertville, Albertville, Ala., will increase capital from \$25,000 to \$50,000.

Bank of Albertville, at Albertville, Ala., will increase capital from \$25,000 to \$50,000.

Pike County Bank at Murfreesboro, Ark., has increased capital from \$12,500 to \$25,000.

National Trust Co., Charlotte, N. C., has changed its name to the Southland Trust Co.

First State Bank, 1331 Main St., Dallas, Tex., has increased capital from \$100,000 to \$250,000.

People's Bank of Collierville, Tenn., has made application to increase capital from \$15,000 to \$25,000.

First National Bank of Buchanan County, St. Joseph, Mo., has changed its name to the First National Bank of St. Joseph.

Reports from Lexington, Ky., state that the Henry Clay Fire Insurance Co. has merged with the United American Fire Insurance Co. of Kentucky and Tennessee under name of former institution.

First National Bank of Statesville, N. C., reports at close of business, Jan. 13, loans and discounts, \$433,736; cash, \$88,096; capital stock, \$100,000; surplus and undivided profits, \$55,915; deposits, \$473,019; total resources, \$723,934; J. C. Irvin, Prest.; E. S. Pegram, Cash.; John W. Guy, Asst. Cash.

Directors of the Fort Worth National Bank and the State National Bank, Fort Worth, Tex., have decided to merge under the name of the latter institution. The new organization will take over the Waggoner Bank & Trust Co. and operate it as a trust and savings institution. The consolidated

bank will occupy present quarters of the Fort Worth National Bank, and the trust company will do business at 4th and Main Sts. K. M. Van Zandt will be Prest. of the new organization.

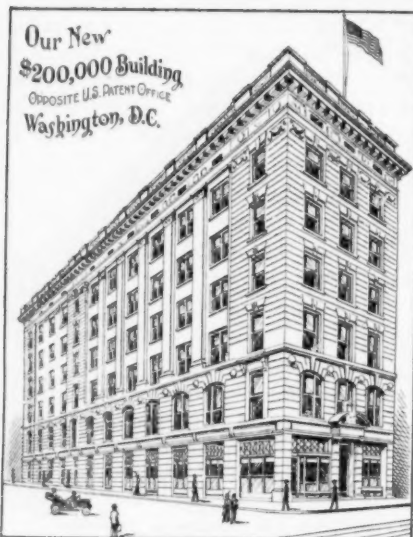
For Latin-American Trade.

A circular which should prove of interest to shippers all over the country has been issued by the traffic department of the Missouri Pacific-Iron Mountain. The matter contained in the document is based on information furnished by H. C. Dinkins, special representative of the railroad, who some time ago was assigned the duty of visiting the Latin-American countries and making a study of trade conditions and opportunities there.

This particular circular, which is one of a series to be issued along the same lines, deals principally with conditions in Chile and Argentine Republic, two of the countries visited by Mr. Dinkins, and gives much valuable first-hand information with reference to shipping facilities at the principal cities, the names of the foremost shipping and receiving agents, the more important articles of import and export and the commodities of which the different shipping concerns make specialties. The principal lines of industry are also set forth, as well as the natural resources of the countries. According to the report, the merchants and dealers of the South American countries are anxious for better service from the Gulf ports.

Of the cities of the Southern Hemisphere, Buenos Aires, the capital of the Argentine Republic, with a population of 1,400,000, is the largest and most important. It is a busy up-to-date place, the business section of which reminds one of New York or Chicago. An ample system of subways built by an English company has just been completed to relieve the con-

For Interesting and Valuable Information about
PATENTS WANTED
and bought by Manufacturers, send for free—large
Illustrated paper Visible Results and Terms Book.
R. S. & A. B. Lacey, Dept. 5, Wash'g'n, D. C. Estab. 1869.



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Send model or sketch for free report as to patentability. Our four books sent free to any address:

How To Obtain Patent, with one hundred mechanical movements. **What To Invent**, with valuable **List Of Inventions Wanted**.

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WANTED NEW IDEAS

Send for LIST OF PATENT BUYERS who consult us when purchasing patents. Contains requests from MANUFACTURERS, MAIL ORDER HOUSES and PROMOTERS for patents secured by us, and suggestions as to New Ideas they wish to purchase. We invite manufacturers and promoters to address our Sales Department regarding the purchase or leasing of a number of meritorious patents secured by us.

VICTOR J. EVANS & CO.

724-726 Ninth Street, WASHINGTON, D. C.

We have recently secured the following patents. A copy of any of these patents will be forwarded upon receipt of ten cents. Address all communications to Sales Dept., Victor J. Evans & Co., Washington, D. C.

Victor B. Berger, corset fastener.
Frank P. Dyer, haircutting machine.
Marshall M. McCombs, switch operating device.
John B. York, pumping attachment.
Michael J. Gogarty, scoop.
Charles E. Partridge, hub attachment.
Wm. L. Mann, tire.
Arthur B. Benson, blueprint drying machine.
Wm. Day, seed planter.
Aubrey C. Harry, portable wallpaper hanger.
Wesson J. & Pardon Cook, spring wheel.
Joseph Conrad, feed bag.
Loren E. Clark, ignition and starting mechanism for internal combustion engine.
John Coryell, extension jack screw.
Samuel J. Cook, music tuner.
Francis W. Walraven and Charles E. Callins, water gauge.
Walter Waidlich, rail joint.
Mrs. Mabel Ross, shuttle.
Ingemar Rystedt and Melvin Steele, flying machine.
James L. Riley and Merritt S. Byrd, poultry feeding device.
Ernest F. Rowley, hoe.
Mrs. Lulu Myers, safety hatpin.
Chester J. Patterson, hay loader.
Abel J. McAllister, loose-leaf binder.
Thomas R. and James P. Murray, dust suction street cleaner.
Albert J. Warren, stump puller.
Wm. A. Pue, apparel securing device.
Wm. T. Sapp, safety rail joint.

Wm. A. Swim, fence post.
Otto Volz, cage.
Louis Mendez, cooking device.
Mardiros Mighirian, altar bread cutter.
Henry Hohoff, heating for sectionalized brooders and incubators.
George O. Bristow, railway crossing.
Commander P. Baker, device for binding fodder.
Augustus W. Balch, self-closing worm and bait box.
Paul Briones, ship construction.
Vestal P. Coffin, valve mechanism for internal combustion engine.
Edward W. Clinchard, dental appliance holder.
Peter Ferguson and Joseph W. Wainwright, illuminated sign.
Ervin E. Strawn, printing machine.
Martin Hurwitz, attachment for trousers.
Otis M. Druse, safety device for R. R. switch.
Albert Lodge, fish plate.
Carroll Phillips, railway switch operating means.
Wm. A. Henry, toaster.
Edward J. Lawrence and Henry White, locker.
Wm. D. Fricks, releasing mechanism for typewriter bars.
Charles W. Gerhart, lever mechanism for gear shifting.
Joseph W. Parrish, grease cup plug.
Isaac Lapidus, slot lock.

Charles F. Lembke, internal combustion engine.
Theodore Lemirand, wall support for bracket lamps.
Perry W. Smith, agricultural implement.
Walter A. Woodhull and Charles R. Woodhull, non-refillable bottle.
George J. Leavitt, packing box.
Wm. H. Niemann, bridle bit.
Peter Schroeder, lock nut.
Victor M. Osborn, flying machine.
Wm. Maidens, game apparatus.
Lawellin A. Ely, game.
Alfred L. Beauchaine and Glenn H. Montfort, non-refillable bottle.
Charles W. Smith, frying pan.
Perry B. Schell, bin.
Raymond B. Harpster, wallpaper measuring device.
Stilas W. Vaught, attached hand pump.
Charles W. Hamilton, flue cleaner for steam boilers.
Albert P. Fulmer and Frank M. Nebinger, book and eye.
Bert J. Cook, combination tools.
Arthur S. Bullock, tire shoe.
Wm. E. J. Anderson, brake.
John H. Nuber and Clarence E. Henderson, expansion bolt.
Edwin J. Hiller, gutter hanger.
Harry M. Sprecher, winding machine.
Benj. Stephen and James D. Reed, automobile lamp control.
Frank Still, shoe for railroad tie.

George H. Dangleman, shock absorber.
Elmer F. Estes, pencil sharpener.
Theodore Douglas, endless tread for automobiles.
Wm. Hanning and Matthew Nicholas, ratchet wrench.
George O. Heinrich, supplemental step for car.
Elijah F. Johnson, connecting rod for switch.
Jacob Bauerle, crutch.
Charles Brunswick, safety appliance for vehicles.
John D. Hoffman, cement machine.
Robert Bixby, nut lock.
Clinton J. Coffman, faucet.
Alois J. Degenfelder, device for supporting container.
Albert M. Berkshire, double ratchet die stock.
Benjamin F. Stamm, safety razor blade holder.
Fred Yank, lawn mower.
Max Zetschok, rocking-horse.
Nelson Lewis, combination door and window screen.
Frederick Sifferman, airship.
Wm. F. Sellers, rail joint.
John D. Maier, smoking pipe.
John Scharl, pencil tip.
Andrew J. and Michael F. Vagas, storm coat.
Frederick W. Reese, water heater.
George Lecuyer, animal forceps.

gestion in the business district. There is need for American banks there, as at present the United States must depend entirely upon European banks to make their collections, thereby disclosing to Europe their business affairs. The trade of Argentina at present is controlled largely by Great Britain and Germany, although many big United States firms have representatives there.

Mr. Dinkins believes that the opening of the Panama Canal will enable the United States to do a much larger business with Chile, where the English have decidedly the better of the trade at present. Santiago, the capital of the country, has a population of 403,000, but most of the business is done through Valparaiso, the principal seaport. The latter has a population of 263,000 and most of the principal business houses in Santiago and other points are branches of Valparaiso concerns.

At present, financial conditions are bad in Chile, Peru and Bolivia, and business in these three countries is largely at a standstill.

For Freeport Harbor.

[Special Cor. Manufacturers Record.]

Freeport, Tex., January 30.

An immediate survey is to be made of the mouth of the Brazos River from the Gulf to Freeport for the purpose of estimating the cost of securing a depth of 25 feet of water by the Federal Government. Word to this effect was received at Freeport today from Congressman George F. Burgess, representative from this district, who stated in his dispatch that the survey had been recently authorized by the U. S. Board of Engineers. In connection with this survey a public hearing will be held at Freeport by the Washington authorities in the latter part of March or the first

of April. At this time testimony will be taken as to the present and proposed development at this port. It is expected that several members of the congressional rivers and harbors committees and U. S. Engineer officers will visit Texas and be present at this Freeport hearing to investigate the natural advantages and commercial possibilities of this port.

For a Lumber Plant.

Kelly, N. C., January 30.

Editor Manufacturers Record:

There is an opening at Kelly's Cove for a first-class river lumber plant which can get all logs rafted to the mill and can load lumber on steamers for Northern markets. There is an excellent opening in this section for good farming. Not more than 5 per cent. of the land is in cultivation, and, where it is drained, it produces large crops of corn or cotton without any commercial fertilizer. JOHN W. HEATH.

Want a Tile Plant.

Cleveland, Miss., January 29.

Editor Manufacturers Record:

Our county and those adjoining us have done and are now doing a great deal of dredge work. As the drainage districts are completed tile work follows, and the demand for tile is greater than the tile people can meet. We have just organized a business league, and want to locate a tile plant here. THOMAS S. OWEN.

For a Savings Bank.

The Rev. John L. Ray, pastor of the First Baptist Church of Victoria, Tex., is interested in the establishment of a savings bank in a growing and prosperous city of 1000 population in the Gulf Coast country of Southwest Texas.



**Increase the
Productive Quality
of Your Soil**

WITH

Giant Agricultural Lime

We have built at Norfolk, Va., one of the most modern Agricultural Lime Plants in the country. Equipped with machinery to produce uniform quality and large tonnage, and with ample storage facilities for supplying farmers and dealers with lime when wanted. Giant Agricultural Lime is made from the purest raw materials, under the supervision of a skilful chemist.

ANALYSIS

(Note—Practically all Soluble.)

Silica.....	7.10
Alumina.....	1.48
Iron oxide.....	2.13
Lime hydrate.....	88.64
Magnesia.....	.65
	100.00

WRITE FOR BOOKLET

"Facts You Should Know About Agricultural Lime"

Your dealer should have Giant Agricultural Lime, if not, write us direct for prices.

Giant Portland Cement Co.

Agricultural Lime Department

NORFOLK, VA.

Concrete's the Thing—Lehigh's the Cement

The success of any concrete work is largely dependent upon the quality of Portland Cement used. Specify a recognized standard and dependable brand.

Lehigh is high in strength, uniform in color and fineness. Specify Lehigh—it means cement satisfaction.

There are always fresh stocks of Lehigh at the principal ports. This means that you can get a Lehigh Valley cement delivered at your station in about a third of the time required for direct mill shipments.

Lehigh Portland Cement Company

Savannah Bank & Trust Bldg., Savannah, Ga.

**Main Office:
Allentown, Pa.**



**11 Mills
Annual Capacity
Over 12,000,000 Bbls.**

Classified Opportunities

MEN WANTED

WANTED—A man well experienced in the slack-barrel heading business who can invest a substantial amount in a well-equipped plant located in the South with abundance of standing timber; has attractive freight rates to Northern points. Address No. 1451, care Manufacturers Record, Balto., Md.

A WELL-ESTABLISHED FOUNDRY and machine plant in Florida wants a young or middle-aged experienced mechanic who will take an interest in the business; must be a hustler with an ambition to further build up, and those only who can come with good recommendations need apply. Address Box 11, Palatka, Fla.

AGENT WANTED on commission to sell electric hoists in New Orleans and vicinity; must have experience and willing to spend sufficient time at our factory to become thoroughly familiar with the construction. No. 1449, care Manufacturers Record, Balto., Md.

AGENTS WANTED among supply dealers and salesmen for an exceptional house-lighting machine, suitable for small homes as well as large; simple, durable, economical; satisfaction guaranteed to customers; has excellent selling points; a live proposition. Write for terms. The Alexander N. Milburn Co., Baltimore, Md.

THE GASTONIA CHAMBER OF COMMERCE desires to employ a competent secretary. For particulars address A. C. Jones, Secretary of Board of Directors, Gastonia, North Carolina.

SALESMEN with established routes to the wholesale and retail hardware trade to add new articles to present line. Give territory covered and reference. Gates Manufacturing Co., Detroit, Mich.

WANTED—Honest, energetic man with some capital to become interested in good-paying industrial plant manufacturing high patent wagons; established 3 years. Write for particulars. Address No. 1459, care Manufacturers Record, Balto., Md.

LARGE JOBBER of twines and cordage in Eastern city desires services of A1 traveling salesman and office manager; entire charge of its Southern business; unusual opportunity for young man of character, energy and thorough knowledge of trade. Address No. 1446, care Manufacturers Record, Balto., Md.

PAINT MANUFACTURER of long experience and established reputation requires high-class salesman of wide acquaintance and good standing among coal companies and other paint users in Southwestern Virginia and Southern West Virginia. Experience in paint business preferable but not essential. Address No. 1441, care Manufacturers Record, Balto., Md.

WANTED—By large real estate auction company, a good man for road work securing contracts for land sales; fine opportunity right man; salary or commission; state all. Address Box 402, Jackson, Tenn.

WANTED—Applications, with references, for secretary Chamber of Commerce. Write Jno. T. Roddey, President, Rock Hill, S. C.

A PRACTICAL GOLD-MINING ENGINEER that can command on his report \$25,000 cash, wanted to take hold and develop and operate a splendid gold-mining property near Dahlonega, Ga. Can get particulars by writing to me. No letter not accompanied with references of experience, integrity and financial credit, based on favorable reports, will be answered. S. A. Jones, Waynesville, N. C.

WANTED—Man to look after picker-room and mine sets of woolen cards making cotton-waste yarns; pay \$3 per day. Also man to look after 12 mules of 300 spindles each, together with winding, twisting and reeling machinery; pay \$3 per day; or would pay man \$4 per day for both rooms; Davis & Furber machinery. Demopolis Cotton Mills, Demopolis, Ala.

AGENTS acquainted with railroads and County Commissioners to carry short line high-grade metallic paints. Address The Atlantic Paint Co., 185 Madison Ave., New York City.

MANAGER—A capable manager is wanted by a large, well-equipped chair factory in the South; excellent opportunity for capable man. Address No. 1494, care Manufacturers Record, Balto., Md.

WANTED—A bright, ambitious, well-educated man with natural tendency for salesmanship. Splendid opening with real estate company in a progressive Southern city. Address Box 595, Wilmington, N. C.

WANTED—Experienced man who understands the manufacture of hosiery to take charge of a small knitting mill. Address Jacob Spiro, Knoxville, Tenn.

AGENCIES WANTED

WANTED—Sales agency for all lines pertaining to builders' specialties; East Tennessee as territory; can furnish satisfactory references to interested concern; modern warehouse facilities. Address Daniel Briscoe, Jr., 325-327 State St., Knoxville, Tenn.

RATES AND CONDITIONS

Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 25 lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 18c. per line. 300 lines 16c. per line. 500 lines or more, 15c. per line.

WANTED—Sales agency for orchard supplies, spray material pumps, etc., for the State of Virginia. No conflicting lines will be carried. Two years' experience in sales of fruit and orchard supplies. Address No. 1453, care Manufacturers Record, Balto., Md.

MANUFACTURERS' AGENTS acquainted with builders and architects wanted by live, up-to-date iron works for the South, both structural and ornamental; commission basis. Roanoke Iron Works, Inc., Roanoke, Va.

HAVE YOU A CINCINNATI REPRESENTATIVE? If not, you should have. I want a good line for that territory. Write me about yours and we may be able to help each other. Merchandise, 1810 First National Bank Bldg., Cincinnati, Ohio.

WANT TO SELL the Southern trade for the manufacturer. Tell me what you make. I cover the South. L. W. McCord, 211 Third Ave. North, Nashville, Tenn.

STATE AGENCY WANTED for floor tiling, lime, wall plastering, Portland cement, roofing paper, composition shingles and mortar colors. We contemplate handling building supplies in connection with the manufacture and sale of common brick, face brick and fire brick. Address No. 1415, care Manufacturers Record, Balto., Md.

SITUATIONS WANTED

ENGINEER-CONTRACTORS' SUPERINTENDENT wants position; 15 years' experience; can handle any class of construction. No. 1454, c/o Manufacturers Record, Balto., Md.

MECHANICAL-ELECTRICAL ENGINEER and draughtsman desires to become permanently located in the South. Kindly state offer. Address Wm. W. Williams, 38 Schermerhorn Street, Brooklyn, N. Y.

YOUNG MAN with college education and varied business experience desires position with manufacturing company with view of becoming traveling salesman. Address H. R. C., 506 S. Fifth St., Louisville, Ky.

CIVIL ENGINEER, 35, married, 5 years' accounting, 12 years' various engineering design and construction experience, wants permanent employment with manufacturing or industrial plant. J. S., 2706 Walnut St., Milwaukee, Wis.

FOR YEARS secretary and treasurer group of selling and operating companies, accountant, systematizer, credits, collections, finances; location immaterial; highest references; strict habits; bond any sum; age 39; married. Address No. 1436, care Manufacturers Record, Balto., Md.

YOUNG MAN wishes invest about \$3000, with services; now holding responsible position in South; college, business and commercial law education; thorough business training, and an accountant. Address No. 1432, care Manufacturers Record, Balto., Md.

AMERICAN, now employed, 30 years old, married, chemical engineer, graduate of Southern technical school, recently returned from three years' residence in South America, wishes to connect himself with export department of manufacturing concern or commission house; has had experience with house exporting machinery and has called on customers in this country and in South America; speaks and writes Spanish. Rio Piedras, 719 Empire Bldg., Atlanta, Ga.

MY SERVICES FOR SALE—Experienced commercial secretary, office manager, advertising, publicity and newspaper man, desires permanent position; now and for past 3 years associated with Col. Henry Exall, President Texas Industrial Congress, as Sec'y and office manager; unqualified recommendations upon request. W. C. Barlickman, Sec'y Texas Industrial Congress, Dallas, Texas.

A NO. 1 MECHANIC, now employed as master mechanic, wishes to change; prefer South; general all-round mechanic in construction, sawmilling, mining; now located in Fla. What have you to offer? I know how to handle men. No. 1440, care Manufacturers Record, Balto., Md.

YOUNG MAN, single, Government employee, desires connection with reputable house with view of representation, preferably Washington and nearby cities; commission or salary; some experience; references furnished. Address D. E. Harris, Plymouth Apts., Washington, D. C.

WANTED—Congenial employment by energetic married man of college education and of more than twenty years' successful experience at the head of an enterprise widely and favorably known in Alabama and the South; auditorship, superintendency, or connection with some first-class publishing house preferred. Would serve first 6 months for \$150 a month net. First-class references as to energy, sobriety and character. Address Super Intendent, 95 Houston St., Montgomery, Ala.

ENGINEER-DRAFTSMAN, experience steam, electrical, refrigeration, general construction in steel and concrete; moderate salary. Address No. 1438, care Manufacturers Record, Balto., Md.

EDUCATIONAL

RENSSELAER POLYTECHNIC INSTITUTE, TROY, N. Y.—Courses in Civil, Mechanical, Electrical and Chemical Engineering and General Science, leading to the degree of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), Chemical Engineer (Ch.E.), and Bachelor of Science (B.S.). Also special courses. Splendidly equipped new engineering laboratories. Send for catalogue to Registrar.

CAPITAL WANTED

WE NEED \$20,000 to manufacture and put on the market an automobile engine starter and air compressor which can be sold and placed on any car for \$60. Interested parties with capital can get information by addressing No. 1455, care Manufacturers Record, Balto., Md.

A GOING CONCERN, owning its plant and doing a manufacturing, general machine shop, foundry and contract business, best location in South Atlantic States, fine prospects, plenty of work not easily affected by outside conditions, wants \$20,000 active working capital; terms to be arranged. Don't write unless genuinely interested and have the money. Address No. 1289, care Manufacturers Record.

I HOLD LEASES on 15 acres of fine oil land in the Caddo Oil Fields near Oil City, La.; have one well completed and will pump 75 barrels per day; need \$2700 to complete same. Good terms to right party. Box 113, Ashdown, Ark.

RAILROAD ICING STATION in Florida, cantaloupe section, needs \$5000 to increase ice and storage capacity; plant cost \$15,000; want partner or first mortgage loan at 10 per cent. Crystal Ice Co., High Springs, Fla.

A GOING drug manufacturing concern wants a good, honest, energetic man who can put \$2000 or \$3000 into the business and either go on the road or handle men on the road. J. W. Cass, Johnson City, Tennessee.

BUSINESS OPPORTUNITIES

REAL ESTATE MEN can turn over some quick sales by listing the low-priced, small-acreage farms we have opened on our line. Address J. R. McConnell, R. & C. R. R., Carthage, N. C.

FOR SALE—Interest in fine-paying light and water plant. Apply to A. W. Kearley, Booneville, Miss.

WANTED—To connect with brokers or individuals who can place a part or all of \$25,000 worth of good first mortgages on improved property in Richmond, Va. Liberal commission allowed. Address No. 1452, care Manufacturers Record, Balto., Md.

WE ARE EQUIPPED for the economical building of medium-weight machinery. For companies or individuals interested in making permanent manufacturing arrangements, we will manufacture on a contract or royalty, or manufacture and market. Proposition must stand rigid investigation. Address No. 1456, care Manufacturers Record, Balto., Md.

A CLIENT of ours has a site suitable for a small warehouse or manufacturing business. He will erect a building for a good tenant. The location is a convenient shipping point in this city. The Central Realty Co., Inc., 1006 Hull Street, Richmond, Va.

FOR SALE OR TRADE—A good proposition for practical mechanic. One-half interest in Oklahoma Bridge & Culvert Co. and Sheet Metal Works, located at Guthrie, Okla.

ASSIGNEE'S NOTICE OF SALE—Notice is hereby given that the undersigned, as assignee of the Libbourn Screen & Power Company, will offer for sale the assigned property, as follows:

One Screen Door Factory, consisting of ground, warehouse, factory, and all necessary machinery and power to manufacture screen doors.

One Electric Light Plant, consisting of ground, power-house, office, steam power, poles and wiring, a twenty-year franchise, with all supplies on hand. Both plants to be sold together. Three hundred dozen manufactured screen doors. And all other property on hand on day of sale. All of the above property is situated in the City of Libbourn, County of New Madrid and State of Missouri. Sealed bids will be received on or before 12 o'clock noon of the tenth day of February, 1914. I will reserve right to reject any and all bids. Terms of sale, cash. L. Leroy Thompson, Assignee of the Libbourn Screen & Power Company.

A FINE BUSINESS OPPORTUNITY for a party who desires to invest in a telephone exchange. Address H. C. McPherson, Mgr. Oneonta Telephone Exchange, Oneonta, Ala.

MICA MINE—half interest for sale, and mineral rights on 600 acres. Also, 700 acres woodland in fee, \$450 per acre. Do not answer unless you mean business. Box 923, Asheville, N. C.

MODELS

MODELS MADE FOR INVENTORS—General machine work. Designing and perfecting. Developing automatic devices and machinery. In a position to do all kinds of light tool and machine work. Prices reasonable. Estimates cheerfully given. Ideal Machine Works, 64 Ann Street, New York City.

PLANING MILL PLANS W-NTED

WE WILL PAY 50c. for each acceptable suggestion regarding building arrangement of machines, economy of operation, safety, etc., for our new planing mill. Also buy accepted plans and specifications. Send for list of twenty machines. Cave Spring Planing Mill, Cave Springs, Ga.

FACTORY SITES

FOR SALE—Two large factory buildings and six tenant-houses; side-door delivery to railroad; exceptional railroad facilities; on Buckhol Electric Power Line; water-works; in center of splendid farming district; situation, Jonesboro, Lee county, N. C.; will sell or rent; terms favorable. Address R. E. Carrington, Sanford, N. C.

FOR SALE—As a whole or in part, 42 acres smooth and level land, lying between and adjoining two railroads in the suburbs of Hagerstown, Md. Splendid facilities and special inducements for manufacturing purposes. Address Bower & Bower, First National Bank Bldg., Hagerstown, Md.

INDUSTRIES WANTED

MISCELLANEOUS

INDUSTRIES WANTED—We offer cheap labor, unlimited electric power, plenty raw material, and best climate in the world. For full particulars write Roland G. Spearman, Sec'y, Talladega, Ala.

BLUEFIELD, WEST VIRGINIA, the gateway to the vast Pocahontas coal fields, and the distributing point for half a million contented laborers, needs an overall factory, needs a mine implement factory, and needs a planing mill. Address C. T. Boykin, Secretary Bluefield Chamber of Commerce.

HENRIETTA, TEX., offers unlimited supply natural gas 4c. to manufacturers; fire brick, tile shales; water; low taxes; healthful; 3 railroads; unusual opportunity legitimate enterprises. Address Booster Club.

WANTED—Experienced man with machinery or some money to organize and operate plant in woodworking line; will furnish building and material. Fruitland Colony Co., Fruitland, Ga.

A SMALL RAILROAD will do more to meet your requirements than a large one. The Randolph & Cumberland R. R. is in the undeveloped section of North Carolina's best region, and on this line are splendid opportunities and an open field for a woodworking plant, cannery, brick plant, cotton or hosiery mill, besides other industries. We also have splendid low-priced farm lands in our territory. Write to J. R. McConnell, Industrial Agent, R. & C. R. R., Carthage, N. C.

ARE you seeking a factory site or a location for a wholesale or distributing house of any kind to reach the Southern and Southwestern markets? If so, Memphis is the place for you, because it is the geographical center and the gateway of the sections you wish to cover; because "Memphis makes the Rates," having 17 railroads and the Mississippi River, and because she has cheap and abundant raw materials, excellent labor conditions, and is unsurpassed as a residence city. Above all, she has 200,000 wide-awake citizens ready to welcome you and cooperate with you. Address John M. Tuther, Sec'y Business Men's Club, Memphis, Tenn.